



BS 1000M : Part 1 : 1985

UDC 025.45 (0.046.4) = 20

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Universal Decimal Classification

International Medium Edition
English text
FID publication no. 571

Part 1. Systematic tables

Classification Décimale Universelle
Edition Moyenne Internationale, texte anglais
Partie 1. Tables systématiques

Dezimalklassifikation
Internationale mittlere Ausgabe, englischer Text
Teil 1. Systematische Tafeln

000595

British Standards Institution

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Foreword

The English versions of the Universal Decimal Classification (UDC) are being prepared and published by the British Standards Institution (BSI) at the original joint request of the British Society for International Bibliography (BSIB) and Association of Special Libraries and Information Bureaux (ASLIB), now amalgamated as Aslib. They have the approval of the Lake Placid Education Foundation, New York, proprietors of the Dewey Decimal Classification, from which the UDC derives.

BS 1000M is issued, by arrangement with the International Federation for Documentation (FID), as part of the International Medium Edition of the UDC, which is to appear in three versions (English, French and German), of which the German text and now the English are so far available. It comprises two parts:

- Part 1 Systematic tables
- Part 2 Alphabetic subject index (in preparation)

Scope

UDC is a scheme for classifying information on all subjects and in all forms. The medium editions contain about a third of the material of the full editions.

Amendments included

This selective edition of the UDC includes modifications authorized in 'Extensions and Corrections to the UDC' (FID publication no. 248) up to and including Series 9, No. 3, dated June 1977. A single exception made in the English text is the inclusion of the United Kingdom administrative divisions in Table I (e), at the subdivisions of (410), which were authorized in Series 11, No. 3, dated July 1983.

Numbers added in the English text

At the request of FID, attention is drawn to the fact that the following numbers have been added in the English text of the International Medium Edition (IME), as being of particular relevance to users of English-language editions of UDC:

Table I (e):	(686)	291.35
(1-924.21/.22)	(729.724)	291.61
(234.631/.632)	(729.726)	294.553
(234.651/.652)	(931.2/.6)	296.2/.6
(261.66)	(99:410/94)	331.227
(261.273/.275)	Table I (f):	553.548
(282.271.1/.3)	(=911)	7.033/.035 (and
(282.272.11)	(=914.99)	many subdivisions
(282.272.6)	(=97/=98)	formed with place
(282.274.1)	(=992.32)	auxiliaries denoting
(282.274.3)	(=995.1)	English-speaking areas)
(282.294.1/.13)	Main tables:	802.0-022/-088
(410.1/.7) (see	003.346	809.143.2/.3
'Amendments	141.814	809.483
included')	165.75	809.723
(415)	283(410.1/73)	809.819
(421.1/.6)	284-1(410.1)	914.10
(423.432)	285/288	941/942
(423.44/.45)	285/286	many subdivisions of
(676.11/.16)	285.68	95, 96, 97 and 99

These numbers, therefore, do not form part of the official IME selection. Similarly, some numbers are included in

the German text to cater for the interests of German-language users, and comparable adjustments will be made in other language versions.

The presence of *other* numbers in the English but not the German text, as also the absence of some numbers present in the German text, represent corrections to errors or apparent oversights, made with the agreement, or at the suggestion, of FID, and therefore do now form the official selection.

Acknowledgements

The Universal Decimal Classification, and this selection from it, are the intellectual property of the International Federation for Documentation (FID).

The UDC was originally derived from the DEWEY Decimal Classification, and the schedules and tables in this edition incorporate some material published in later editions of DDC © 1911, 1913, 1915, 1919, 1922, 1927, 1932, 1942, 1951-52, 1958, 1965, 1971, 1979, variously by Melvil Dewey, Lake Placid [Club] Education Foundation, and Forest Press, Albany, NY, USA.

Disclaimers

In a few cases, proprietary names are included in this edition if they are in common use and help to define the concept intended. No reflections on their legal status, either by the British Standards Institution or by any of its cooperating organizations, are intended, and none should be inferred from this publication.

Many place-names are also included. The names used, the selection and sequence of regions, descriptive expressions and relations implied by the numeric hierarchy do not constitute any endorsement of their national or international status either by the British Standards Institution or by any of its cooperating organizations. No opinions about any of these matters should be inferred from this publication.

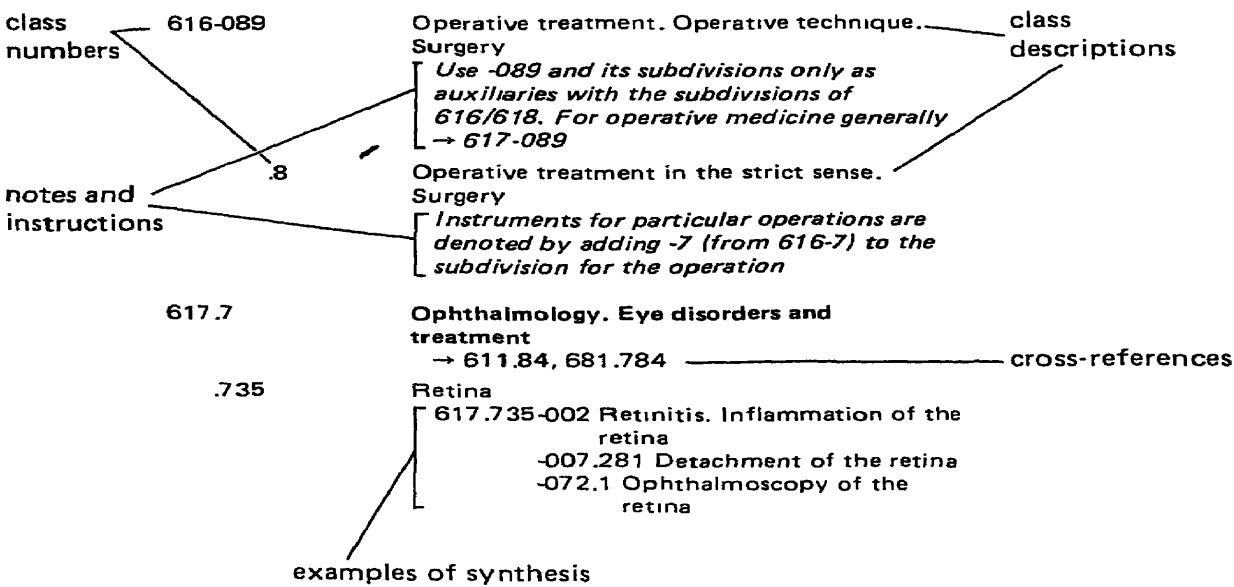
Typographic presentation

Layout. A UDC entry consists of three main elements: the class number, which appears in the number column at the left; the class description, which appears in the text column at the right; and various amplifications, which appear indented within the text column. These last include notes, cross-references, instructions for synthesizing and examples of compound notation so obtained. Illustration of these elements will make this clear (see page iv).

It should be noted that synthesis is available to the user wherever it results in a meaningful combination, and the compound numbers shown are only examples from a potentially vast number. The fact that they are indented in the text column is tantamount to 'e.g.'.

Symbols. In addition to UDC notation, the following symbols are used:

- (arrow) meaning 'see' or 'see also'
- ≡ meaning 'subdivide as' (see Introduction, 2.6.2.11)



INTRODUCTION

1 History of UDC

1.1 The use of decimal notation as a code for expressing the concepts in a documentary classification was first proposed by the physicist André Marie Ampère (1775-1836) and popularized by the American librarian Melvil Dewey in the later 19th century. Dewey's scheme was developed and used in the library of Amherst College, Massachusetts, and first published in 1876. This first edition, entitled 'Classification and subject index', was brief, with its 10 pages of tables containing 919 headings, and lacked some of the features later associated with the scheme (it was not called decimal, and contained no decimal fractions); nor was the order of subjects particularly innovative, deriving from a tradition going back to the Paris booksellers of the 17th century; but it still contained the beginnings of a system that was to prove immensely serviceable and influential. Later, the three-digit minimum and the decimal point after the third digit were introduced, the scheme was expanded in successive editions, and its use spread rapidly throughout the USA and then in other English-speaking countries. It played an important part in establishing the norm of a systematic code denoting the subject as a primary means of arranging and retrieving literature in libraries — grouping together works on similar subjects, irrespective of marks identifying individual documents.

1.2 In 1895, a further step in the development of decimal classification was taken by Paul Otlet (1869-1944), a young Belgian barrister already noted for his work in bibliography in the social sciences. Under the aegis of the newly founded Institut International de Bibliographie (IIB) in Brussels, Otlet and his collaborator Henry La Fontaine (1854-1943) were working on the projected Universal Bibliographic Repertory, which was intended to become a comprehensive classified index to all published information. A means of arranging the entries would be needed, and Otlet, having heard of Dewey's Decimal Classification, now in its fifth edition (1894), had obtained a copy and been deeply impressed by it. He wrote to Melvil Dewey in 1895 and obtained permission to translate it into French. Otlet and La Fontaine saw in Decimal Classification a taxonomy of human knowledge, that could be expressed (as they said in a conference paper) 'in an international language — that of numbers'; they saw too that, because of the extensibility of decimal numbers, it could readily accommodate the detail needed for bibliographic rather than strictly library use. The idea outgrew the plan of mere translation, and a number of radical innovations were made, adapting the purely *enumerative* classification (in which all the subjects envisaged are already listed and coded) into one which allows for *synthesis* (that is, the construction of compound numbers to denote interrelated subjects that could never be exhaustively foreseen); various possible relations between subjects were identified, and symbols assigned to represent them. They also realized that characteristics common to many subjects could be assembled as a separate list; repeated patterns of digits where the same characteristic of division was applied were already present to some extent in Dewey's first edition, but now the further step was taken of detaching the terminal digits and listing them as tables of auxiliary numbers, which could be added where required by the user. This synthetic principle meant that a level of detail could be obtained much greater than what was actually displayed in the published scheme: higher

precision combined with economy of presentation. At the same time, Otlet and La Fontaine were expanding the purely enumerative content, to provide for the extensive requirements of the Repertory, and the result was a scheme both more copious and more sophisticated than its predecessor. It contained about 33 000 subdivisions. It was published by the IIB, in French, from 1904 to 1907, and was called the 'Handbook to the Universal Bibliographic Repertory' (Manuel du Répertoire Bibliographique Universel). It was in fact the first edition of UDC.

1.3 The scheme continued to expand, though interrupted by the First World War, and work progressed on a second edition, in which the editorship was shared with Frits Donker Duyvis of the Dutch Patent Office, who was responsible for the extensive revision and expansion of the science and technology sections. It was published from 1927 to 1933, and by now had over 70 000 subdivisions. The Universal Bibliographic Repertory, the impetus for the scheme, was proving unmanageable, and this edition was now offered independently under the title 'Classification Décimale Universelle', the name by which (in various translations) it is still known. This edition still has the status of a master version, and it is upon this, as modified and augmented by approved amendments collected in various supplements and nowadays in the serial 'Extensions and Corrections to the UDC', that later editions are based. A third edition, the first in German, was next begun, under the editorship of Carl Walther, and published from 1934 to 1951; this was probably double the size of the second, about 140 000 subdivisions.

1.4 Interest in the UDC in the United Kingdom was particularly promoted by the enthusiasm of Dr S C Bradford (1878-1948), who was Keeper of the Science Museum Library from 1925-1937, and responsible for its adoption of UDC in 1928. The 'Classification for works on pure and applied science in the Science Museum Library', third edition (but the first to use UDC) was published in 1936, and was the first completed (though selective) edition of UDC in English. It was in fact an abridged edition (about 6000 subdivisions) with emphasis on science and technology. Work was also under way on a translation of the still authoritative second (French) edition, and this was to be the beginnings of a fourth full edition of UDC, the first in English. Parts of this were published in 1936-39, jointly by the British Society for International Bibliography and the Association of Special Libraries and Information Bureaux (BSIB and ASLIB later united to form Aslib). At their request, BSI assumed responsibility for publishing UDC, and, after issuing slightly corrected versions of the existing parts in 1943, continued to produce English editions as BS 1000.

1.5 English, French and German are still the official languages for the maintenance of UDC. The Institut International de Bibliographie (IIB) in 1931 became the Institut International de Documentation (IID), now with its headquarters at the Hague, and in 1937 changed again to the Fédération Internationale de Documentation (FID), its present name. FID is still the centre for the management and maintenance of UDC. From August 1949, authorized amendments have appeared in 'Extensions and Corrections to the UDC', issued at first six-monthly, now annually. UDC has been translated into many other languages since the early editions, and there are now editions of various lengths in 23 different languages listed in the 'Bibliographical Survey of UDC editions' (FID Publication 573, The Hague, 1982).

2 Characteristics of UDC

2.1 Nature of classification

Classification is a means of bringing order to a multiplicity of concepts, or perceptions, or items of information, by arranging them into classes — that is, groups of things that have something in common; this also means that they have something distinctive, differentiating their class from other classes (since things lacking the common feature are excluded). A class may be divided into smaller classes, still with the properties of collective identity and distinctiveness, and so on until, theoretically, the whole scale is covered, from the *universe of information* (that is, all recorded knowledge) down to an *individuum* (that is, a class with only one member). Between the extremes of 'all things' and 'a single thing' are the more useful classes that contain groups of related things.

2.2 Kinds of classification

Classifications may be *special* — concentrating on, or biased towards, a particular subject; or *general* — covering the universe of information. UDC, like DDC from which it derives, is a general classification. They may also be *scientific* — systematizing the phenomena of the natural world, as an aid to their logical consideration and study; or *documentary* — an aid to the management of documents, with the aim of making information locatable. DDC and UDC are documentary classifications. Documentary classifications tend to be either for *library* use — for the physical arrangement of an actual collection and as a guide to its coverage; or *bibliographic* — for the detailed indexing and description of documents, not confined to any one collection. DDC originated as a library classification and UDC as a bibliographic one. They will often be *enumerative* — exhaustively listing the categories into which the universe has been divided; or *faceted* — identifying characteristics common to many categories and arranging them in lists or tables each representing a *facet* (that is, the total of concepts obtained by applying a particular characteristic of division). Thus, the compiler has analysed subjects into their elements for the user to recombine or synthesize, and faceted classification is also called *analytico-synthetic*. UDC has evolved from a project to develop an enumerative into a faceted classification.

2.3 Overlaps

The above categories of classification scheme are not mutually exclusive. Scientific classifications may be incorporated into documentary ones, as they have been to some extent in UDC, e.g. at 549 and (though not explicitly) parts of 58 and 59. Bibliographic and library classifications may each incorporate some of the other's features, and in practice are not limited to a single application. UDC was designed for bibliographic use but has proved eminently suitable for library use, often in concise versions such as the present edition. Though general, it has been found useful in special collections and services, and a number of specialized selections (known as special-subject editions) have appeared.

2.4 UDC an aspect classification

In one respect, UDC differs markedly from scientific classifications, which tend to be *taxonomies* — that is, isolating phenomena and allocating to each a unique place in the scheme. UDC, like many general schemes, is an *aspect classification*, in which a phenomenon is classed according to the context or discipline in which it is considered (so that its various aspects occur at many different

places). For example, coal has no single place in UDC. The petrological aspect is at 552.574, the economic geology aspect at 553.94, the mining aspect at 622.23, or as dust at 622.411.52, the soil mechanics aspect at 624.131.27, the agricultural aspect (fertilizers) at 631.878, the fuels aspect at 662.66 and 662.74, or as briquettes at 662.814, and coal for pig iron production is at 669.162.16. More peripheral aspects are at still other numbers. Theoretically, general documents covering all of those aspects should be classed at all of those numbers; but in a given collection, with a particular bias, it is often possible to select one number as the main place for a subject.

2.5 Unambiguity of UDC

UDC notation is an artificial language, from which many of the ambiguities of natural language have been eliminated. For example, the term 'paraffin' has both a technical sense (a series of saturated aliphatic hydrocarbons of the general formula $C_n H_{2n+2}$) and a popular one (= kerosine, a petroleum fraction with a particular boiling range), while 'kerosine' has at times been known as 'petroleum', a term now used as the general name for mineral oils. But in UDC there is no such ambiguity; in the context of mineral oil technology, mineral oil generally (petroleum) is at 665.6, production of paraffins is at 665.637.2 and production of kerosine is at 665.634. Similarly, 'power' in mathematics (the index of a number) is at 511.132, while 'power' in mechanical engineering (the output of an engine) is at 621.1.018.7, and 'power' in electrical engineering is at 621.3.016.2, with 'power supply' at 621.311. Other aspects of these subjects may occur elsewhere, but in each case the class number represents a clearly defined concept, not a word or phrase whose meaning may vary according to context.

2.6 Structure of UDC

It will be apparent from its history that UDC is a hybrid of two kinds of documentary classification scheme, and its structure reflects this. There are two kinds of table: the main and auxiliary tables (sometimes called the 'schedules' and 'tables' respectively), and, though the distinction is not hard and fast, they exemplify to some extent the enumerative and analytico-synthetic elements in UDC, and their associated notation. The *notation* is the code that represents the concepts in a classification, and generally expresses their order; the compiler will have arranged his classes in a systematic order, but it will only be readily apparent if the notation associated with each concept has an inherent ordinal value of its own. Arabic numerals have such a value.

2.6.1 Main tables

2.6.1.1 The main tables, and thus the primary notation, in UDC are the ones most closely related to DDC. In Dewey's scheme, the universe was divided into ten classes, each of which was then further divided. In UDC, one class is now vacant, since class 4 was cancelled in 1963 to make room for future developments, and its subject, linguistics, was merged into class 8 with literature. UDC therefore comprises the following classes:

- 0 Generalities. Science and knowledge. Organization. Information etc.
- 1 Philosophy. Psychology
- 2 Religion. Theology
- 3 Social services . . . Law. Government etc.
- 4 Vacant
- 5 Mathematics and natural sciences

- 6 Applied sciences. Medicine. Technology
- 7 The arts. Recreation. Entertainment. Sport
- 8 Language. Linguistics. Literature
- 9 Geography. Biography. History

Thus, each of those broadest classes is denoted by a single-digit arabic number (UDC, unlike DDC, does not have a three-digit minimum). Each of the ten theoretical classes, or nine occupied classes, may in turn be divided to form ten narrower classes (or subclasses). These will accommodate more restricted concepts and be represented by longer numbers. For example, class 5 is divided into the following subclasses:

- 50 Generalities about the pure sciences
- 51 Mathematics
- 52 Astronomy. Astrophysics. Space research. Geodesy
- 53 Physics
- 54 Chemistry. Mineralogical sciences
- 55 Earth sciences. Geology. Meteorology etc.
- 56 Palaeontology
- 57 Biological sciences in general
- 58 Botany
- 59 Zoology

Each of these is a logical subdivision of the content of class 5, and each is denoted by a number beginning with 5; but each is also a more restrictive class than 5, and has a class number one digit longer. These two-digit classes have further subdivisions, denoted by three-digit numbers, and so on. The main tables, in other words, are divided hierarchically, with the numeric hierarchy reflecting the conceptual hierarchy; the broadest classes are at the highest level, and the narrowest or most restrictive classes are at the lowest level, of the hierarchy. The length of the class number is indicative of the degree of detail. Class numbers of the same length, denoting a similar level of generality (or extension) are *coordinate*. Classes with shorter numbers, denoting greater extension, are *superordinate*. Classes with longer numbers, denoting greater specificity (or intension) are *subordinate*. 58 and 59 are coordinate. 5 is superordinate to 58 and 59. 591 is subordinate to 59. An exhaustive set of coordinate classes (containing the full logical subdivisions of the superordinate class) is an *array*.

2.6.1.2 The ordinal value of the numbers depends on their being regarded as decimal fractions, less than unity. One may think of them as being preceded by a notional nought and point, which for convenience is omitted (for example 5 stands for 0.5). They therefore do not have the same order as integers, in which six would precede fifty-nine by a long way; 5 is followed not immediately by 6, but by 50 to 59. Similarly, 59 is followed by all its subdivisions from 591 to 599 before 6 is reached; and between 591 and 592 come all the subdivisions of 591 up to 591.9. At this stage, a point has been introduced between the third and fourth digits, but it is not a decimal point: it is merely punctuation for ease of reading. A long code is easier to read if it is broken into small groups, and so a point is added after every third digit; for example, 62138233332 is more manageable in the form: 621.382.333.32. As the whole class number is a decimal fraction, including the part before the first point, it is preferable to pronounce it not as an integer but as a series of digits ('six-two-one point three ...' rather than 'six hundred and twenty-one point three ...').

2.6.1.3 Because decimal fractions are infinitely extensible, it is always possible to introduce further subdivisions without altering the ordinal value of the rest of the sequence. New developments, or increasingly detailed information, can therefore be accommodated in the scheme by the creation of new classes while preserving the stability of the rest. Such notation is said to be *hospitable*.

2.6.1.4 The parsing of an example will show the structure of a long class number from the main tables:

621.397.132.125 PAL (Phase Alternating Line) system.

This string of twelve digits represents a chain in a hierarchy of concepts, in which each successive place implies a choice from the possible subclasses:

- 6 Applied sciences. Medicine. Technology
 - 2 Engineering. Technology in general
 - 1 Mechanical engineering ... Electrical engineering. Machinery
 - 3 Electrical engineering
 - 9 Telecommunication. Telecontrol
 - 7 Picture transmission. Television
 - 1 [vacant]
 - 3 Television
 - 2 Colour television
 - 1 Simultaneous colour systems
 - 2 With common transmission channel for primary colour signals
 - 5 PAL (Phase Alternating Line) system.

The first digit, 6, denotes 'Applied sciences. Medicine. Technology'. A start has been made along a path down the hierarchy, which branches at each successive level: out of the universe of information, a class of concepts has been selected that belong to the applied sciences. The second digit, 2, shows that, of the ten possible subclasses 60 to 69, the one selected is 62, restricting us to engineering. Each succeeding digit further specifies the preceding concept, and symbolizes a more restrictive class, until the lowest level is reached. The meaning of each digit is determined by its place in the chain (2 means 'engineering' only if it follows 6). The full number 621.397.132.125 exhibits increasing specificity going towards the right.

2.6.1.5 Reality sometimes declines to fit into predetermined categories, and the universe cannot consistently be divided into decimal fractions. Not every number is necessarily occupied. Nought tends to be reserved for a special purpose, particularly following a point (→ 2.6.2.8 to 2.6.2.10), but most arrays occupy fewer than the nine remaining places. Occasionally they require more than nine places (e.g. ministries occupy the range 354.11/.86).

2.6.2 Auxiliary tables

2.6.2.1 UDC's most innovative and influential feature was its auxiliary notation, the signs and subdivisions provided to allow for the construction of compound numbers, or synthesis (→ 1.2). A number taken from a single place in the tables and cited on its own — whether a main number or an independent auxiliary (→ 2.6.2.6) is a *simple number*; e.g. (410) and 622 are simple numbers. A number created by synthesizing, using elements from more than one place in the tables, is a *compound number*; e.g. 622+669 and 622(410) are compound numbers. Auxiliary notation is of two main kinds: the common and the special auxiliaries. The *common auxiliaries*, as well as providing a means of

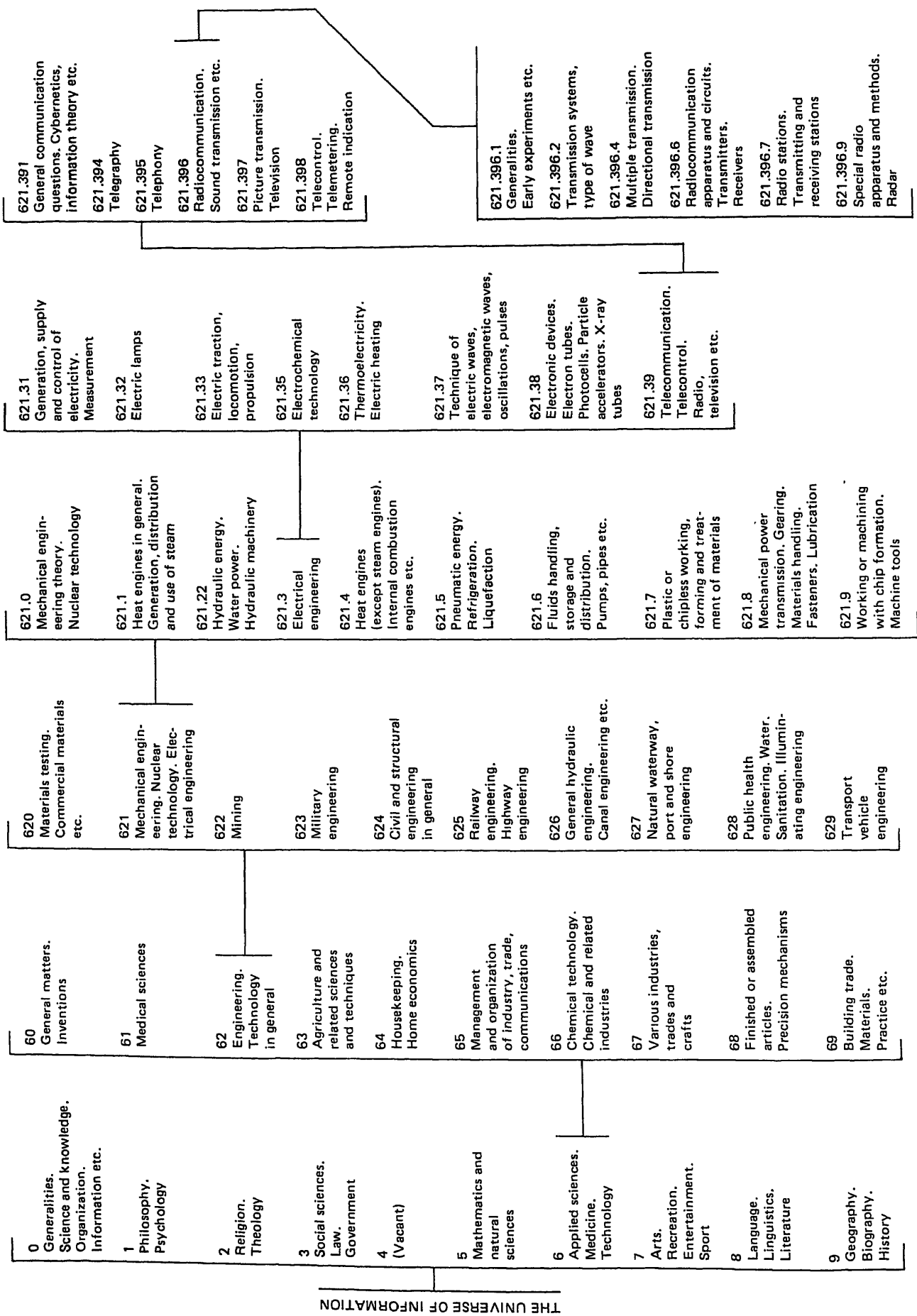


Figure 1. Hierarchic subdivision, from 1 to 7 digits

expressing interrelations between subjects, denote *generally recurrent* characteristics (i.e. those that are applicable throughout the main tables). The *special auxiliaries* denote *locally recurrent* characteristics (i.e. those that are applicable in a limited range of the main tables).

2.6.2.2 The common auxiliaries in turn comprise two kinds of symbol: the signs and subdivisions.

2.6.2.3 The common auxiliary *signs* are the plus, the stroke, the colon, the square brackets and the double colon, which serve as relators, linking UDC numbers (either main or auxiliary), but are not themselves numbers, do not represent classes, and cannot be subdivided. Not many kinds of relation are distinguished: the plus and the stroke represent kinds of *aggregation* (the sum of meanings of several UDC numbers), while the colon serves for most other relations. When UDC numbers are linked by colon, it merely shows that the subjects denoted by the numbers are related to each other in some way; it does not specify which influences the other(s), nor show the nature of the influence exerted — in short, it does not denote the *phase* of the relation. For example, the compound:

658.512.2:681.3 Industrial design in relation to computers and data processing

does not indicate whether computers are the instrument or the object of designing (computer-aided design or design of computers). Changing the order of the elements in such a compound does not in principle change the meaning: it is stated in Table I(b) that the relation is reversible, and that A:B and B:A are of equal significance. In private use, however, the order might be made significant. Recent additions to the UDC vocabulary are the algebraic subgrouping and order-fixing signs (Table I(b), Sections 2 and 3). These to some extent afford the user a means of clarifying relations between subjects.

2.6.2.4 The lack of specificity in the common auxiliary signs, notably the colon, implies a correspondingly extensive usefulness: this device enables any concept in the whole classification to be related to any other, and so in a sense to qualify it. Such a copious range of qualifiers could hardly be achieved by other means.

2.6.2.5 The common auxiliary *subdivisions* consist of numeric tables, in which concepts are enumerated and arranged hierarchically; to this extent, they resemble the main tables, but they are distinguished by their own symbols either prefixed to, or enclosing, the number. Some features, such as time and space, are relevant to practically all phenomena, while others, such as language and documentary form, become relevant as soon as a phenomenon becomes the subject of a document. When a given characteristic of division recurs throughout a classification, it is convenient and mnemonic if the resultant facet (→ 2.2) is expressed in the same notation wherever it occurs; but this also makes it possible for the digits expressing it to be detached and separately listed. By this means, they become available to be affixed, theoretically, to every class number in the main tables, so permitting more specific denotation of any concept in the scheme. Removed from their context, they require an extra symbol to identify the characteristic of division (a *facet indicator*); for example, the digits 1 to 9 have many different meanings, but when they are enclosed in parentheses, this announces that the place facet is to be enumerated. Similarly, quotation marks announce the time facet, and so on. Some of these symbols serve more than one purpose, and their meaning depends

on what immediately follows; for example, an opening parenthesis may be followed by 0, denoting form, by 1 to 9, denoting place, or by the equals sign, denoting race and nationality. The numeric part of the auxiliary notation is punctuated after every third digit, as with the main tables.

2.6.2.6 The common auxiliary subdivisions fall into two groups: the independent and the dependent auxiliary tables. The *independent auxiliary tables*, though they may be affixed to any UDC number where appropriate, may also be used on their own, to form the whole class number for a document. These are Tables I(c) to I(g), the auxiliaries of language, form, place, race and time. For example, if it were decided that the place facet was the only one that needed to be expressed (e.g. in classifying maps), a way of doing this would be to cite the place auxiliary alone, from Table I(e). The *dependent auxiliary tables* have always to be affixed to a UDC number; these are, officially, Tables I(i) to I(k), the auxiliaries of point of view, materials and persons. Additionally, Table I(h), which specifies means of adding non-UDC notation, is in practice dependent (though not described as such), since the asterisk and alphabetic extensions have to be added to a UDC number.

2.6.2.7 Most of the independent auxiliary tables have symbols that enclose the number, thus demarcating it from adjacent numbers. These are *biterminal signs* — that is: signs with both an opening and a closing element. Tables I(d), I(e) and I(f) have parentheses, while Table I(g) has quotation marks. The exception is Table I(c) (Common auxiliaries of language), which has only an initial equals sign; this is compensated for by adding a colon at the end of the language notation in some positions, as in the example =40:641.5(083.1) given in the preamble to Table I(c). Because of their demarcation, auxiliaries with *biterminal signs* can be affixed to any part of a UDC number, at the beginning, middle or end (i.e. *prefixed*, *infix* or *suffixed*), as well as being usable independently, e.g.

(410) Great Britain: United Kingdom of Great Britain and Northern Ireland

(410) 622.33 Britain — coal mining

622(410).33 Mining — Britain — coal

622.33(410) Coal mining — Britain

This is in contrast with the dependent auxiliaries, which are used only as suffixes, e.g.

622.33.002.5 Coal mining — production plant, machinery, equipment

though they may be followed by further auxiliaries, e.g.

622.33.002.5(410) Coal mining — production plant etc. — Britain

The asterisk, the point and the hyphen, therefore, can never occur at the beginning of a number.

2.6.2.8 The special auxiliaries, unlike the common auxiliaries, are not listed in one place, and by definition do not have such extensive applicability. They occur at various places in the tables, and express concepts that are recurrent, but in a more limited subject range. Most special auxiliaries are enumerative, though there is one synthesizing sign, the apostrophe (which, however, is also used in some places to introduce enumerated subdivisions). They are applicable only where indicated, and the same notation may be used elsewhere with a different meaning. They are always listed as suffixes to other numbers, and cannot be

used independently. A common form of presentation is a list immediately under the main number where they are valid. If no other indication is given, they are applicable also to all the direct divisions of that number. For example, under 621.22 are listed the special auxiliary subdivisions 621.22.01 to .018; there is no instruction as to their applicability; they may therefore be used as suffixes to 621.22 itself (exactly the form in which they are shown) or the digits following 621.22, i.e. .01 to .018, may be detached and added to any of the main numbers from 621.221 to 621.227.3. Thus:

621.22.018 Efficiency. Power. Performance tests
(i.e. of hydraulic machinery in general)

implies the possibility of:

621.227.1.018 Efficiency, power and performance
tests of Montgolfier rams.

A far longer series is 621.3.01 to .095.4, but the principle is the same: the .0 element is applicable anywhere from 621.31 to 621.398, as well as at 621.3 itself. In some cases, the applicability of the special auxiliaries is either restricted or extended from this norm; but then the range of applicability is always indicated in a note. For example, the 65.01/.07 auxiliaries are not valid throughout the subdivisions of 65, and a note preceding them draws attention to this restriction; similar notes appear at the places where use of all or some of them is debarred (under 654, 655 and 656). On the other hand, the 666.1.03 and .05 auxiliaries are valid not only under 666.1, but throughout 666.11/.28, as is indicated in the note preceding them; and a note at 666.21/.28 draws attention to the availability of these auxiliaries in this section outside their expected range.

2.6.2.9 Special auxiliaries may also occur within other series of auxiliaries, as they do, for example, at the beginning of Table I(d) Common auxiliaries of form. The principle is the same: they may be used in the form in which they appear, e.g.

(0.035.22) Microfilmed documents

or the special auxiliary element (beginning with .0) may be detached and affixed to any of the direct divisions of (0), e.g.

(05) Serial publications. Periodicals

(05.035.22) Periodicals on microfilm.

The compound thus formed is still a common auxiliary, which may qualify a main number, e.g.

5 (05.035.22) Science periodicals on microfilm.

The -6 auxiliaries at 66.041 are an example of special auxiliaries within other special auxiliaries.

2.6.2.10 Of the notation used in special auxiliaries, the three main kinds are described and differentiated in Auxiliary tables, Section II (page 55): the hyphen series -1/.9, the point-nought series .01/.09 and the apostrophe series '1/'9. (.0 is almost always used to introduce special auxiliary subdivisions, but there are a few exceptions. See 621.0, 626.0 and 669.05.) Additionally, there is a device not mentioned there, the auxiliaries with three points . . . 1/. . . 9, which are known as 'final digits'. Unlike other auxiliaries, they are not used in the form in which they are listed: the three points are merely a signal that the following figures are available as final digits, and when they are applied, the points are deleted, so that the final digits merge with the rest of the class number. (To put it another way, they have no facet indicator.)

Thus, when the final digits . . . 22, listed under 661.8 and denoting 'oxide', are added to 661.847.9 'Zinc' to form

661.847.922 Zinc oxide. Zinc white. Zinc grey,

the transition from the 'metal' facet to the 'oxide' facet is not marked (if actually comes after the seventh digit). This sometimes means that repunctuation is required; for example

539.12 . . . 12 Mass and charge (i.e. of elementary and simple particles generally)

is not used in that form: the final digits 12 are added to the base number 539.12, giving 539.1212, which is then punctuated after every third digit in the normal way — hence: 539.121.2. (Repunctuation may also be necessary in parallel division: → 2.6.2.11 to 2.6.2.12.)

2.6.2.11 There is another device, though not an auxiliary table at all, that is similar to special auxiliaries in that it results in the same notation being used to denote a given concept in more than one place. It is *parallel division*, signalled in the tables by the *subdivide-as* sign $\cong$. This simply means that the number preceding the $\cong$ may be subdivided in a manner analogous to the number following it; this will result in an exactly analogous array, with the same concepts expressed by the same sequence of digits. A simple example is in 611 'Anatomy', parts of which are parallel to 616 'Pathology', where both are subdivided into particular organs. The compiler has opted to give more detail under 616 (the pathology of particular organs), but it would not matter which was chosen as the main place: the point is that they are parallel, and to enumerate the organs fully in both places would be a waste of effort. Instead, we have instructions such as that under 611.2 'Respiratory system': 611.21/.26 $\cong$ 616.21/.26, or under 611.3 'Digestive system': 611.3 $\cong$ 616.3. In these cases, the 616 subdivisions are the *source numbers*, from which digits may be detached and added to the *target numbers* under 611; thus 616.21 gives us the analogous 611.21, while 616.31 gives us 611.31, and so on. The parallel arrays may be represented symmetrically:

611.21	Nose. Sinuses	616.21
.22	Larynx (voice-box)	.22
.23	Trachea (windpipe)	.23
.24	Lungs	.24
.25	Pleurae	.25
.26	Diaphragm	.26

the difference being that the numbers in the left-hand column represent these items in the context of anatomy, while those in the right-hand column represent them in the context of pathology. The list of items is the same.

2.6.2.12 This is generally easy to follow when the source number and target number are the same length. When they are of different lengths, then repunctuation may be necessary. An example of this is 611.81 'Central nervous system', divided like 616.831; thus 611.813 derives from 616.831.3. The parallelism here is not obvious to the eye, but the principle is the same: the digits that follow 611.81 are inferred from the digits that follow 616.831, so from 616.831.3 the final 3 is detached and added to 611.81 — hence: 611.813. It may be helpful in such cases to delete the points mentally; then 61181 $\cong$ 616831 and from 6168313 we infer 611813. We then punctuate after every third digit — hence 611.813. Here too, the parallel arrays

may be represented symmetrically:

611.813	Prosencephalon (forebrain) etc.	616.831.3
.814	Diencephalon (thalamencephalon)	.4
.815	Mesencephalon (midbrain) etc.	.5
.817	Metencephalon (hindbrain) etc.	.7
.818	Myelencephalon etc.	.8
.819	Cerebral meninges	.9

and it becomes clear that the italicized digits are common to both number columns.

2.6.2.13 There is no limit to the kinds of notation where parallel division is used. They may be main numbers ($611.81 \cong 616.831$); they may be special auxiliaries ($675.025 \cong 675.055$); they may be common auxiliaries (" 5 " $\cong$ " 4 "); auxiliary numbers may derive from main numbers ($-036.4 \cong 678.4$) or vice versa ($914/919 \cong (4/9)$); and a number may be the source for the parallel division of one of its own subdivisions ($659.28 \cong 659.2$). This should cause no confusion, as in every case where parallel division is authorized, the fact is clearly indicated, often with examples.

2.6.3 Filing order

2.6.3.1 The filing order of UDC symbols is based on a progression from the general to the particular. Thus, the common auxiliaries (which are by definition general) come first, and an independent auxiliary used alone or cited first ($\rightarrow$ 2.6.4.1) files before a main number. Next, an aggregation of several numbers has a broader meaning than a simple number, so compounds with the plus and the stroke — Table 1(a) — file before a single component number ($622+669$ comes before 622). Finally, a shorter number files before a longer number, because a number followed by an auxiliary (unless it is an aggregation) is more specific than the simple number, while in simple hierarchic division ($\rightarrow$ 2.6.1.4) each successive digit further specifies the concept, increasing the particularity.

2.6.3.2 Arabic numerals arranged as decimal fractions ($\rightarrow$ 2.6.1.2) have an inherent ordinal value; the other symbols have been given an arbitrary one. Figure 2 shows the filing order of both simple and compound numbers.

	symbol	example
independent auxiliaries	=	=30 German language
	(0...)	(0.035.22) Microfilmed documents
	(1/9)	(430) Germany
	(=...)	(=1.410) British nationals
	"..."	"18" Nineteenth century
	+	622.341.1+669.1 Iron-ore mining and ferrous metallurgy
	/	622.341.1/.2 Mining of iron ores and manganese ores
auxiliaries as suffixes	simple number	622.341.1 Iron-ore mining
	:	622.341.1:338.124.4 Economic crises in iron-ore mining (may be reversed to form 338.124.4:622.341.1)
	::	622.341.1::338.124.4 Economic crises in iron-ore mining (may not be reversed)
	=	622.341.1=30 Documents in German about iron-ore mining
	(0...)	622.341.1(0.035.22) Microfilmed documents about iron-ore mining
	(1/9)	622.341.1(430) Iron-ore mining in Germany
	(=...)	622.341.1(=1.366) Iron-ore mining among the ancient British
	"..."	622.341.1"18" Iron-ore mining in the nineteenth century
	*	622.341.1*Fe ₂ O ₃ Mining of red haematite (Fe ₂ O ₃)
	A/Z	622.341.1GOE Named iron ores: Goethite
	.00	622.341.1.002.67 By-products of iron-ore mining
	-0	622.341.1-057.2 Manual workers in iron-ore mining
	-1/-9	622.341.1-78 Protective devices and measures in iron-ore mining
	.0	622.341.1.03 Geological character of iron-ore deposits
	'	622.341.1'17 Waste, residues from iron-ore mining
	next simple number	622.341.11 Magnetite-haematite ores

Figure 2. Filing order

2.6.3.3 The algebraic subgrouping sign (square brackets) does not affect the filing order, and may be ignored for this purpose, except where class numbers would be identical but for the square brackets. Then one may apply the rule of nothing-before-something, so that the one without files first:

658.512.2:681.3-051 Industrial design in relation to:
practitioners of data processing
(e.g. designing for convenience
of operators)

[658.512.2:681.3]-051 Practitioners of: industrial
design in relation to data
processing (e.g. practitioners
of computer-aided design)

2.6.3.4 Intercalation of auxiliaries (→ 2.6.5) may lead to class numbers with infixes at any point in the hierarchy. Such a compound, where the auxiliary separates the opening element from the closing element of the simple number, files after the opening element alone and the opening element plus suffix. For example, the compound 622.341.1(430) in Figure 2 could be rearranged as:

622(430).341.1 Mining — Germany — iron ores,

so creating an order such as:

622
622(430)
622(430).341.1

2.6.3.5 In general, it will be seen that the filing order of UDC symbols is that in which they are displayed in the tables. The exceptions are (i) that the simple number comes between compounds with the stroke and compounds with the colon, and (ii) that square brackets have no inherent filing order.

2.6.4 Citation order

2.6.4.1 When an element of notation is selected as representing an aspect of a document's subject, and is incorporated into a class number for that document, it is said to be *cited*. The order in which the elements are combined to make a compound number is the *citation order* (as each element symbolizes a facet of the subject, the citation order is also known as the *facet formula*).

2.6.4.2 In order to ensure a sequence from general to special, it is necessary that the filing order should be the reverse of the citation order (this is called the *principle of inversion*, and is explained in BS 1000C, 6.2). In theory, either might be taken as the starting point, but here we have specified a filing order, and both the tables as a whole, and examples of synthesis given within the tables, are displayed in this order. So the simplest rule for citing elements in a compound is:

the citation order is the reverse of the filing order.

This means that the sequence proceeds from special to general. If one needed to cite, say, =30 and (430) and "18" and .002.67 and '17, all qualifying 622.341.1, the standard order would be: '17; .002.67; "18"; (430); =30, thus:

622.341.1'17.002.57"18"(430)=30 Iron-ore mining
— wastes —
by-products thereof
— nineteenth century — Germany
— in German

2.6.4.3 The standard citation order may not be satisfactory for all purposes. The reason would be the need,

in particular collections, to bring together (or *collocate*) all references to a particular aspect of a subject, which would be separated if the standard order were followed. For example, in the standard order, time ". . ." would precede place (1/9) — the reverse of the filing order — and so, following the main number, the sequence would be arranged primarily according to time, with any given time aspect divided secondarily according to place:

622 "-. . ." Mining at various times BC
622 "-. . ."(1/9) Mining, BC, in various places
622 "-. . ."(410.197) Mining, BC, in Cornwall
622 "+. . ." Mining at various times AD
622 "+. . ."(1/9) Mining, AD, in various places
622 "+. . ."(410.197) Mining, AD, in Cornwall
622"17" Mining in the eighteenth century
622"17"(1/9) Mining, eighteenth century, in various places
622"17"(410.197) Mining, eighteenth century, in Cornwall.

In this example, references to Cornwall are scattered through the sequence, separated by, firstly, the time element, and, secondly, most of the place sequence, since (1/9) represents many individual entries. If, for a particular purpose, it were necessary to collocate references to mining in Cornwall, it would be necessary to exchange the positions of the time and place auxiliaries in the citation order. Then the division would be primarily according to place and secondarily according to time:

622(1/9) Mining in various places
622(1/9)"-. . ." Mining in various places, BC
622(1/9)"+"-. . ." Mining in various places, AD
622(1/9)"17" Mining in various places, eighteenth century
622(410.197) Mining in Cornwall
622(410.197)"-. . ." Mining in Cornwall, BC
622(410.197)"+"-. . ." Mining in Cornwall, AD
622(410.197)"17" Mining in Cornwall, eighteenth century

In this example, references to Cornwall are brought together, but references to the eighteenth century are scattered.

2.6.4.4 One may summarize the matter of citation order as follows. Lacking any preference, follow the standard citation order (reverse of filing order). But to bring together aspects that would otherwise be scattered, vary the citation order so as to place the relevant notation nearer the beginning of the compound (so affecting the filing order of the class number). The filing order is prescribed, but the citation order is optional.

2.6.5 Intercalation

2.6.5.1 *Intercalation* is the use of an auxiliary as an infix rather than a prefix or suffix. In other words, certain auxiliaries may interrupt a main number, creating a compound such as 622(430).341.1 (mentioned in 2.6.3.4). The reason for this would be to create a more helpful arrangement of documents, or references to them, when classed. It is merely an extreme case of varying the citation order to produce a different sequence. In the example given in 2.6.4.3, the place auxiliary (410.197) was brought forward to precede the time auxiliary "17", giving 622(410.197)"17". Theoretically, it might be brought still further forward, and intercalated into the main number, giving 62(410.197)2"17". This would be useful only if one wanted to group all information on the subject 62

'Engineering', then subdivide it according to place (1/9) before proceeding to . . . 2 'Mining'. In practice, this is not likely, but there might be a need to group information about a more specific activity, such as mining, in a given area:

- 622(410) Mining — Britain
- 622(410).333 Mining — Britain — coal
- 622(410).34 Mining — Britain — metal ores
- 622(430.1) Mining — Germany, Federal Republic
- 622(430.1).333 Mining — Germany, FR — coal
- 622(430.1).34 Mining — Germany, FR — metal ores

or about institutions, such as laws, that vary from country to country:

- 347.78(410) Copyright laws — Britain
- 347.78(410)1 Literary copyright — Britain
- 347.78(410)5 Copyright of music — Britain
- 347.78(44) Copyright laws — France
- 347.78(44)1 Literary copyright — France
- 347.78(44)5 Copyright of music — France

2.6.5.2 This can only be done with auxiliaries that have biterminal signs (→ 2.6.2.7), i.e. parentheses or quotation marks: the common auxiliaries of form, place, race and time.

3 Management of UDC

3.1 The shape of UDC is determined by its users to a greater extent than that of any other major classification scheme. It is managed by the organization created by Otlet and La Fontaine, known since 1937 as the International Federation for Documentation (Fédération Internationale de Documentation) or FID. Its official languages are English, French and German. FID works in cooperation with various national organizations, which in turn have various consultative arrangements with users of the scheme.

3.2 The Classification Sector at FID maintains (among other tasks) a complete *Master Version* of UDC, which consists of the text of the French edition of 1927-33, modified by all approved amendments since that date. It is the duty of the Classification Sector to check the authenticity of proposed published editions of UDC, by reference to the Master Version.

3.3 The published editions of UDC are issued, with the authority of FID, by the member organizations in various countries, which produce versions in their own languages. The current state of UDC (as represented in the Master Version) includes texts in any or all of the three official languages; the editors of the published editions assemble and translate this material, and it is this version that is checked by FID before being authorized for publication. Most published editions are in a single language, and are known as the *language editions* (there are also occasional multilingual editions with parallel-text layout). BSI is the organization responsible for the English-language editions.

3.4 The scheme is under continuous revision, a state of affairs that has obtained since the first edition began to appear in 1904. This means that later states of knowledge in a subject, and missing concepts previously overlooked, can be considered, and if necessary acted on, without waiting until such time as a new edition is imminent. Proposed amendments, known as P-Notes, are circulated by FID to subscribers (anyone can subscribe, but naturally

the UDC-publishing organizations are included). They are, of course, open to comment, and comments submitted are collected and considered by FID. P-Notes, therefore, may be amended, augmented, abridged or withdrawn altogether. Those that are judged acceptable then become authorized, and when published by FID are official UDC text. The published amendments are incorporated into the language editions whenever new editions are undertaken.

3.5 The published amendments became known from early on as 'Extensions et corrections'. Starting in 1933, there was a duplicated loose-leaf updating service called 'Extensions et Corrections Décidées', and in 1949 it became a formal periodical 'Extensions and Corrections to the UDC'. At first semi-annual, it is now annual, and cumulates in 3-year series; the earlier series have been collected into two larger cumulations: 'Cumulated UDC Supplement (-1964)' and 'Cumulated UDC Supplement 1965-1975'. The (so far) uncollected series start with Series 9, no. 3, dated 1977. The text of P-Notes, and therefore of the entries in 'Extensions and Corrections' to which they lead, may be in any one of the three FID languages, or in bilingual or trilingual versions. It varies from one proposal to another.

3.6 To take full advantage of UDC's continuity of revision, the user therefore has the obligation of annually updating his edition(s), and his classifying practice, by reference to 'Extensions and Corrections'. FID's member organizations, such as BSI, from time to time replace published versions with new editions incorporating recent amendments, but inevitably there is some delay. It is necessary to weigh the advantages of up-to-dateness against the onus of updating procedure. The full editions appear in many sections at different stages of up-to-dateness, but with self-contained versions such as the present one, it is possible to make a decision to use UDC in a given, dated edition.

3.7 Proposals for amending UDC are welcomed from all its users, subject to the FID procedures established for this activity. Revision may be initiated by FID itself, or by its member organizations, or by organizations that make use of UDC, or by individuals. BSI operates a committee structure, in which interested organizations are represented, for either formulating revision proposals or responding to those from elsewhere; but non-members of BSI are still free to comment and propose. The national organizations channel comments to FID; users of English-language editions should address any comments to BSI.

4 Official publications

Further information about UDC and its published editions may be found in the following publications of FID and BSI:

FEDERATION INTERNATIONALE DE DOCUMENTATION. *Principles of the Universal Decimal Classification* (UDC) and rules for its revision and publication* (FID Publication 598). The Hague: FID, 1981.

FEDERATION INTERNATIONALE DE DOCUMENTATION. *Bibliographical survey of UDC editions* (FID Publication 573). The Hague: FID, 1982.

BRITISH STANDARDS INSTITUTION. *Sectional list of British Standards SL 35: Documentation (including UDC)*. Milton Keynes: BSI [gratis].

AUXILIARY TABLES

SECTION I

COMMON AUXILIARY SIGNS AND SUBDIVISIONS

TABLE I(a) COORDINATION. EXTENSION

Filing order. The symbols in Table I(a) extend rather than restrict the meaning of a number, and compounds containing them file before the simple number itself. First in the filing order comes the number followed by +...; secondly, the number followed by /...; thirdly, the simple number.

Section 1 Coordination. Addition

Symbol + (plus)

The coordination sign + connects two or more separated (non-consecutive) UDC numbers to denote a compound subject for which no single number exists, e.g.

(44+460) France and Spain
622+669 Mining and metallurgy

Section 2 Consecutive extension

Symbol / (stroke)

The extension sign / connects the first and last of a series of consecutive UDC numbers to denote a broad subject, or range of concepts, e.g.

(7/8) North and Central America, and
South America. The Americas
592/599 Systematic zoology [equivalent to
592 + 593 ... + 599]
629.734/.735 Heavier-than-air craft.
Aeroplanes
643/645 The home and household
equipment [equivalent to 643 +
644 + 645]

If the number following the stroke is more than three digits long and begins with a group of digits in common with the preceding number, it may be abbreviated by omitting the digits common to both, so long as the first item after the stroke is a decimal point. Thus, in the third example above, compounded from 629.734 and 629.735, the group 629 is common to both and is not repeated; the group .735 following the stroke is coordinate with .734 preceding it. The use of the stroke in this way to form a range-number conceals all the component numbers except the first, and the information so classed files in only one place in a classified list. It is therefore inappropriate if there is a need to retrieve information from all the component numbers, and an item such as

546.32/.35 The more important alkali
metals

would be better multiply classed at:

546.32 Potassium
546.33 Sodium
546.34 Lithium
546.35 Rubidium

TABLE I(b) RELATION. SUBGROUPING. ORDER-FIXING

Section 1 Simple relation

Symbol : (colon)

The relation sign : denotes a general, coordinating and reversible relation, in which A:B and B:A are of equal significance, e.g.

17:7 Ethics in relation to art
7:17 Art in relation to ethics
341.63(44:450) Arbitration of disputes
between France and Italy
341.63(450:44) Arbitration of disputes
between Italy and France

Section 2 Subgrouping

Symbol [] (square brackets)

Square brackets [] may be used as an algebraic subgrouping device when two or more main UDC numbers are linked by a plus sign or colon to denote a complex subject which is as a whole related to another by colon, or modified by a common or special auxiliary, e.g.

061.1(100):[54+66]IUPAC International
Union of Pure
and Applied
Chemistry
[622+669](485) Mining and metallurgy in
Sweden
[622+669](485):31 Statistics of mining
and
31:[622+669](485) metallurgy in Sweden
681.3:[621.771.016.3:669.14] Computers in
cold-rolling
mills for steel

Section 3 Order-fixing

Symbol :: (double colon)

The double colon :: may be used to fix the order of the component numbers in a compound number, especially when the UDC is used in a computer-based mechanical information system, e.g.

061.1(100)::[54+66]IUPAC International
Union of Pure
and Applied
Chemistry
061.2(100)::002FID International
Federation for
Documentation
575::576.3 Cytogenetics
77.044::355 War photography

TABLE I(c) COMMON AUXILIARIES OF LANGUAGE

Symbol = (equals)

The common auxiliaries of language in principle form the main place for the enumeration of languages; but in this edition, more detail has been given in class 8.

These auxiliaries denote the language or linguistic form of a document whose subject is denoted by a main UDC number. They also form the basis for the parallel division of 802/809 'Individual languages' and 820/899 'Literatures of individual languages', by substituting for the equals-sign the digits 80 or 8 respectively. Thus:

=20 English
hence
802.0 English language
820 English literature

Example of use as auxiliary:

663.4(493)(075)=393.2 Textbook on
brewing industry in
Belgium, in
Flemish

Although in theory the language of any document might be denoted, in practice it is useful only in very detailed classification and only if necessary for a satisfactory filing order. In citation order, the language auxiliary normally comes after the other auxiliary subdivisions; it may, however, be cited first in a compound number if there is a need to file documents in order of language rather than subject (if necessary, it is separated from the following number by a colon), e.g.

=20(02.053.2) Children's books in English
=40:641.5(083.1) Cooking recipes in
French

Multilingual documents may be denoted by =00 or by the auxiliaries for the individual languages in ascending numeric order, e.g.

53(035)=00 Multilingual handbooks of
physics
53(035)=20=30=40 Handbooks of
physics,
English/French/
German

Translations are classed at =03. The source language is denoted by =03.2/.9 =2/=9, and the target language directly by =2/=9, e.g.

61=03.82 Medical documents translated from Russian	=83	Ukrainian (Ruthenian, Little Russian)
61=03.82=40 Medical documents translated from Russian into French (filed near other medical translations from Russian)	=84	Polish
61=40=03.82 Medical documents translated from Russian into French (filed near other medical documents in French)	=850	Czech
	=854	Slovak
	=86	South Slavic languages
	=861	Serbian
	=862	Croatian
	=863	Slovenian
	=866	Macedonian
	=867	Bulgarian
	=882	Lithuanian
	=883	Latvian (Lettish)
If a language auxiliary is cited first or medially in a compound number, it is separated from the following number either by the opening sign of an auxiliary, e.g. the opening round bracket in:	=9	Oriental, African and other languages
910.4=30(02.053.2) Travel descriptions in German, written for children	=91	Indo-European languages
	=911	Indic languages in general
	=912	Ancient Indic. Sanskrit. Vedic
	=914	Modern Indic. Modern Indo-European languages of India
or by a colon if followed by a main number, as in	.3	Hindustani. Hindi. Urdu
=40:641.5(083.1) above.	.4	Bengali
	.5	Oriya
Systematic table	.6	Marathi
=00 Multilingual. Polyglot	.7	Rajasthani. Gujarati. Bhili
=02 Originals or their adaptations (untranslated)	.8	Sinhalese
=021 Original versions (unadapted, unedited)	.91	Assamese
=025 Adapted, edited, amended versions in the original language	.92	Lahnda (Multani etc.)
	.93	Nepali
=03 Translated documents. Translations	.94	Dardic languages. Kashmiri. Shina. Khowar. Pashai etc.
=03.2/.9 Source language		Romany
=03.2/.9 $\simeq$ =2/=9, e.g.	.99	Iranian languages. Persian
=03.30 Translations from German	=915	Modern Persian (Farsi)
For target language $\rightarrow$ =2/=9	.5	Ossetic
=083 Living languages. Modern languages	.6	Kurdish
=089 Artificial languages	.7	Pashto (Pushtu, Afghan)
.2 Esperanto	.8	Baluchi
=092 Information languages. Machine languages.	.91	Celtic and Basque languages
Algol. Cobol. Find. Fortran. Inform. Syntol	=916	Irish
	.2	Scots Gaelic (Erse)
=2/=9 INDIVIDUAL LANGUAGES	.3	Welsh
=2/=9 is parallel with 802/809, where fuller enumeration is given	.6	Cornish
=2 Western languages in general	.7	Breton
=20 English	.8	Basque (Euskara)
=20(73) American English	.9	Armenian
and cf. examples under 802.0	=919.81	Albanian
=3 Germanic languages	.83	Semitic languages
$\rightarrow$ =20	=92	East Semitic. Akkadian (Assyro-Babylonian).
=30 German. High German (Hochdeutsch)	=921	Sumerian
=392 Frisian	=922	Aramaic. Palestinian. Samaritan. Nabataean.
=393 Dutch and its derivatives		Palmyrene
.1 Dutch	=923	East Aramaic. Syriac. Jacobite. Nestorian
.2 Flemish	=924	Hebrew
.6 Afrikaans	=927	Arabic
=395 North Germanic (Nordic) languages	=928	Ethiopic Semitic languages. Amharic
.8 Faeroese	=93	Hamitic languages
.9 Icelandic	=931	Ancient Egyptian (Dynastic Egyptian)
=396 Norwegian		$\rightarrow$ =927
.9 Nynorsk (Landsmal)	=932	Coptic
=397 Swedish	=933	North Hamitic. Libyan-Berber
=398 Danish	=935	East Hamitic (Ethiopian Hamitic). Cushitic.
=4 Romance (Romanic) languages in general		Somali. Galla. Afar
including =40/=690	=941.1	Tungus (Evenki)
=40 French	.31	Manchu
=499 Catalan	=942.1	East Mongolic. Mongolian
=50 Italian	.2	West Mongolic. Kalmyk
=590 Rumanian (Romanian)	.3	North Mongolic. Buryat
=592 Moldavian	=943	Turco-Tartar (Turkic) languages
=599 Rhaeto-Romance (Rhaetian). Friulian. Ladin.	.5	Turkish (Osmanli)
Romansch	.61	Turkmen
=60 Spanish	.62	Azerbaijani
=690 Portuguese	.63	Anatolian Ottoman
=7 Classical languages	=944	Samoyed languages
=71 Latin. Classical Latin	=945	Finno-Ugrian (Uralian) languages
=732 Vulgar Latin	.1	Ugric group. Hungarian. Vogul. Ostyak
=734 Modern Latin	.11	Hungarian (Magyar)
=75 Greek. Classical Greek	.41	Finnish (Suomi)
=774 Modern Greek	.45	Estonian
=81 Slavic (Slavonic) languages in general	.46	Livonian
=82 Russian	.5	Lappish
=826 Byelorussian (White Russian)	=946	Caucasian languages

=947	Hyperboreal languages (Palaeoasiatic, Palaeosiberian). Eskimo-Aleutian languages
.51	True Eskimo languages
=948	Dravidian languages. Tamil. Malayalam (Malabar). Telugu
=95	Other Asiatic languages
=951	Chinese
.1	Northern Chinese. Pekinese. Mandarin (Kuan-hua)
.2	Southern Chinese. Cantonese etc.
=952.3	Thai (T'ai) languages in general
.4	Siamese
.5	Other Thai languages. Lao (Laotian)
.7	Vietnamese. Annamese. Tonkinese. Cochinchinese
=954	Tibeto-Burmese languages
→=958	
.1	Tibetan languages. Tibetan. Balti. Bhotian. Ladakhi
=955	Himalayan languages. Lepcha (Rong). Kiranti. Dhimal etc.
.5	Assamese. Bodo. Naga
=956	Japanese
=957	Korean
=958	Arakan-Burmese languages. Burmese. Kuki-Chinese
.1	Burmese. Arakan
=959	Austro-Asiatic languages. Malacca. Mon-Khmer. Munda. Nicobarese
=96	African (Negro-African) languages
=961	Hottentot (Khoi)
=962	Bushman (San)
=963	Congo-Kordofan languages. Bantu. Bantuide.
.5	Kordofan. Guinea languages
.518	Bantu languages
.53	Northern Bantu. Rwanda. Rundi (Barundi). Kikuyu (Akikuyu). Ganda (Baganda). Nyoro (Banyoro). Luhya (Baluhya) etc.
.54	Herero-Ndonga group. Ndonga (Ovambo)
.57	Swahili (Swahili) group
.64	South-eastern Bantu. Kaffir-Sotho group. Sotho (Basuto). Zulu. Chuana (Tswana, Bechuana)
=966	Benue-Congolese (Eastern Bantuide). Tiv. Ibibio. Bamileke. Birom etc.
→=93	
.6	Sudanic languages
.7	Nilotic languages. Nuba (Nubian). Dinka. Masai etc.
.8	Bantuide languages. Wolof (Olof). Togo group. Niger-Congo group
=97	Hausa (Houssa)
=98	North and Central Amerindian (American Indian) languages. Apachean. Siouan. Aztec etc.
=99	South Amerindian languages. Carib. Kechua (Quechua) etc.
=992	Austronesian and Australasian languages
.1	Malayo-Polynesian languages. Indonesian languages
.11	Northern (Tagala) group
.12	Philippine languages. Tagalog etc.
.19	Formosan
.2	Language of Madagascar. Malgasi (Malagasy)
.21	Southern and Eastern group
.22	Malay
.23	Javanese
.26	Balinese
.27	Non-Malayan languages of Sumatra. Achin. Batak
.272	Borneo languages
.28	Dayak
.29	Celebes languages. Sulawesi
.295.2	Other Indonesian languages. East Indonesian group
.5	Timor languages
.3	Ambon (Amboina) languages
.31	Oceanian languages
	Melanesian and Micronesian. Fijian

=992.32	Polynesian. Maori. Samoan. Hawaiian
.321.1	Maori
.322	Western Polynesian
=995.1	Australian aboriginal languages
.11	South Australian
.12	North Australian
.7	Papuan languages
.8	Tasmanian

TABLE I(d) COMMON AUXILIARIES OF FORM

Symbol (0...) (brackets-nought)

The common auxiliaries of form denote the documentary form or presentation of a subject represented by a main UDC number, e.g.

58(035) Handbooks of botany

Documents may be arranged according to form by citing the form auxiliary first, e.g.

(038)54 Dictionaries of chemistry (filed near other dictionaries)

Kinds of form not listed below, e.g. literary forms, may be denoted by colon combination with a main number, within the brackets, e.g.

82-31 Novels

(0:82-31) In the form of a novel

929 Biography

929(0:82-31) Biographical novels

Systematic table**Special auxiliary subdivisions**

(0.02)	Documents according to physical, external form
(0.021)	Documents according to scope and size
(0.021.2)	Large
(0.021.3)	Medium-sized
(0.021.4)	Small
(0.021.6)	Miniature editions
(0.022)	Documents according to colour and transparency. Black and white. Full colour. Transparent. Opaque
(0.023)	Documents according to their material (substance)
(0.023) ≈ -03, Table I(k)	
(0.024)	Documents according to their spatial impression. Stereo documents. Anaglyphs
→(086)	
(0.025.2)	Illustrated documents
(0.025.4)	Non-illustrated documents
(0.026)	Documents according to their binding
(0.026.2)	Documents with fixed covers. Bound. Cased. Hardback
(0.026.4)	Sewn, stitched, stapled documents. Brochures
(0.026.6)	Loose-leaf documents
(0.027)	Kind of edition
(0.027.2)	Standard editions
(0.027.3)	Popular editions
→(0.062)	
(0.027.5)	Paperback editions
(0.027.6)	De luxe editions. Fine editions. Collectors', book-lovers' editions
→094.3	
(0.027.8)	Unauthorised editions. Pirated editions
(0.028)	Defective documents
(0.028.1)	Incomplete documents. Copies with missing pages
(0.028.3)	Damaged documents
(0.028.5)	Documents with printing defects, misprints, errata etc.
(0.028.7)	Forged documents. Fake documents
(0.03)	Documents according to method of production
(0.032)	Handwritten documents (autograph, holograph copies). Manuscripts. Pictorial documents (drawings, paintings)
(0.033)	Typescripts. Output from typewriter, teleprinter, text processor, line printer, computer terminal etc.
(0.034)	Machine-readable documents. Punched cards. Punched tape. Magnetic tape. Magnetic disc etc.

(0.035)	Copies. Reproductions. Duplicated documents	(045)	Articles in serials, collections etc.
(0.035.1)	Enlarged copies		Contributions
(0.035.2)	Reduced copies. Microcopies	(046)	—(05); (08)
(0.035.22)	Transparent, strip-form. Microfilm	(047)	Newspaper articles
(0.035.23)	Transparent, page-form. Microfiche		Reports. Notices. Bulletins
(0.035.24)	Opaque. Microcard. Micro-opaque	(047.1)	—(055)
(0.035.3)	Photocopies (same-size copies). Diazo, xerographic, electrographic copies etc	(047.2)	Progress reports. Situation reports
(0.036)	Printed documents	(047.3)	Travel reports. Reports of trips (business, study trips etc.)
	—(0.033)		Special reports. Technical reports. Reports of tests, experiments. Management, administrative reports. Reports of accidents, damage
(0.036.2)	Printed proofs. Galley proofs. Page proofs etc		Reports for the press. Press releases, handouts. Communiqués
(0.036.4)	Preprints	(047.5)	Interviews
(0.036.6)	Offprints (separates)		Brief reports, notices. News items. Press cuttings
(0.038)	Multi-part, multi-volume works	(047.53)	Bibliographic descriptions. Abstracts.
(0.04)	Documents according to stage of production	(047.6)	Summaries. Surveys
(0.041)	Drafts. Preliminary sketches, outlines	(048)	Bibliographic descriptions
(0.042)	Temporary, provisional, interim documents		Annotations
(0.044)	First (published) editions. Editiones principes	(048.1)	Abstracts
(0.045)	Reprinted editions. Reprints. New impressions	(048.2)	Indicative abstracts (giving scope and content)
(0.046)	Revised editions. New editions. Corrected editions	(048.3)	Informative abstracts (summarizing arguments, conclusions)
(0.046.4)	Abridged editions	(048.32)	Summaries
(0.05)	Documents for particular classes or groups of reader	(048.34)	Surveys. Compilations of information from several primary documents
	—087.2/.5	(048.4)	Uncritical surveys. Pure compilation
	(0.05) $\approx$ -05, Table I(k), e.g.	(048.8)	Critical surveys. Evaluative surveys.
	(0.053.2) Documents for children		Analytico-synthetic surveys
	(02.053.2) Children's books	(048.82)	Factual surveys. Fact documentation
	(0.055.2) Documents for women	(048.83)	Predictive, prospective surveys
	(051.055.2) Women's magazines		Other non-serial separates
(0.06)	Documents according to level of presentation, and availability	(048.84)	Notifications. Announcements. Proclamations. Manifestos
(0.062)	Low-level, elementary, popular exposition	(048.85)	Polemics. Disputations. Controversies.
	—(0.027.3); (075.2)	(049)	Diatribes. Justifications. Vindications.
(0.063)	Intermediate, average-level exposition	(049.1)	Rejoinders. Apologias
(0.064)	High-level, advanced exposition	(049.2)	Declarations of opinion. Advice, hints.
	—(035); (075.8)		Critiques. Appreciations
(0.068)	Rare documents. Unique documents. Sole extant copies. Unica	(049.3)	Petitions. Requests. Applications
	—094.2		Serial publications. Periodicals
(0.07)	Supplementary matter issued with a document	(049.4)	—05
(0.072)	Commentaries. Amplifications. Annotations. Critical apparatus	(05)	<i>Details by Table I(g) Time, e.g.</i>
	—(048.2)		(05)“508” Irregular serials (published at irregular intervals)
(0.074)	Amendments. Addenda. Postscripts		“520.1” Published daily
(0.076)	Corrections. Errata. Corrigenda		“530.1” Published weekly
Common auxiliary subdivisions (continued)			“530.2” Published fortnightly
(01)	Bibliographies		“540.1” Published monthly
	—(048); 016		“540.2” Published two-monthly
(02)	Books in general		“540.3” Published quarterly, three-monthly
(03)	Reference books		“550.1” Published annually, yearly
	—03; 801.3		Periodicals (In the strict sense). Journals. Magazines etc.
(031)	Encyclopaedias	(051)	News bulletins. Newsletters. Information bulletins
	—030.1		Yearbooks. Directories. Street directories. Trade directories
(035)	Handbooks. Manuals	(055)	Almanacs. Calendars for specific subjects, professions etc.
(036)	Guidebooks (with practical and descriptive information)	(058)	—059
(038)	Dictionaries. Language dictionaries. Technical dictionaries. Subject glossaries	(059)	Ephemerides. Calendars of coming events
	—030.8		Publications of societies, organizations
(04)	Non-serial separates. Separata		—(05); (085); 06.055
	—04; 82-4		Publications concerning organization and activities
(041)	Pamphlets. Brochures	(059.3)	(060.1/.8) $\approx$ 06.01/08
(042.3)	Lectures	(06)	Publications of particular kinds of society or organization
(042.4)	Lecture courses		(061/069) $\approx$ 061.1/9
(042.5)	Speeches. Orations	(060.1/.8)	Documents for instruction, teaching, study, training
	—82-5		—371.67
(043.2)	Theses. Academic theses		
(043.3)	Dissertations	(061/069)	
(043.5)	Inaugural dissertations (academic)		
(044)	Correspondence. Letters. Circulars	(07)	
	—82-6		
(044.2)	Personal letters. Private correspondence		
(044.4)	Business letters. Official correspondence		
(044.6)	Circular letters		

(072)	Documentary materials for teaching. Teaching aids —(084); (086)	(083.97) (084) (084.1)	Programmes Pictorial documents. Graphic documents Pictures. Illustrations
(073)	Curricula. Syllabuses	(084.11)	Drawings. Sketches
(075)	Educational texts. Schoolbooks. Texts for students	(084.12) (084.121) (084.122)	Photographic images Still photographs Films. Motion pictures
(075.2)	Elementary school texts. Primers	(084.122.3)	Silent film
(075.3)	Secondary school texts	(084.122.5)	Sound film
(075.4)	Texts for self-instruction, private study, home study, correspondence courses, adult education	(084.127)	Survey photographs. Photograms (with known internal orientation)
(075.8)	Texts for university, higher education	(084.14)	Magnetically recorded images. Video recordings —(086.8)
(075.9)	Texts for short courses, crash courses, refresher courses		Printing blocks (half-tone blocks etc.). Electrotypes
(076)	Documents for practical instruction, training —(035)	(084.17)	Prints from blocks. Block-pulls
(076.1)	Documents with problems, questions	(084.18)	Schematic representations
(076.2)	Documents with solutions, answers	(084.2)	Diagrams. Graphs
(076.3)	Documents with questions and answers —238.1	(084.21) (084.28)	Profiles (two-dimensional)
(076.5)	Practical exercises. Laboratory, field exercises etc.	(084.29)	Block diagrams (two-dimensional). Flow charts (flow-sheets) —(086.45)
(076.6)	Programmed texts. Scrambled textbooks, with program frames	(084.3)	Cartographic images. Maps. Plans. Charts. Cartograms —(086.43); 912
(078.7)	Case studies (as form) —001.87		Special auxiliary subdivisions
(079)	Documents connected with competitions, tests, examinations etc.	(084.3-1)	Maps etc. according to scale
(079.1)	Questions and exercises for tests, contests, competitions. Examination papers	(084.3-12)	1:5 000 to > 1:20 000
(079.2)	Paper qualifications. Diplomas. Degrees. Certificates of proficiency etc.	(084.3-14)	1:75 000 to > 1:250 000 (topographic survey maps)
(08)	Collected and polygraphic works. Forms. Lists. Illustrations. Business publications —08; 82-82	(084.3-16)	1:1 000 000 to > 1:20 000 000 (maps of countries, of continents)
(081)	Individual polygraphies. Collected works of individual authors	(084.3-18)	1:100 000 000 and smaller (world maps)
(082)	Collective polygraphies. Collections of works by several authors	(084.3-2)	According to form of representation
(082.1)	Series (works by various authors published under a general title). Publishers' series, sets, libraries	(084.3-21)	Non-pictorial forms. Contour maps. Maps with hachures, hill-shading
(082.2)	Anthologies. Selections. Excerpts. Quotations	(084.3-22)	Pictorial forms. Bird's-eye maps
(083)	Technical and normative documents. Tables. Lists etc.	(084.3-223)	Airphoto mosaics
(083.1)	Recipes. Prescriptions. Directions	(084.3-3)	According to type of representation
(083.12)	Recipes. Prescriptions	(084.3-32)	Skeleton maps. Distribution maps
(083.131)	Directions for use	(084.3-34)	Statistical maps on-the dot system. Dot maps
(083.132)	Practical advice, hints	(084.3-35)	Cartograms. Cartodiagrams
(083.133)	Instructions	(084.3-36)	Structural maps. Maps of complex spatial division
(083.2)	Forms, blanks. Printed forms	(084.3-37)	Survey maps
(083.4)	Tables (other than purely numeric). Statistical tables	(084.3-4)	According to method of production, printing, reproduction
(083.5)	Technical data tables. Calculation tables. Conversion tables —519.66	(084.3-41) (084.3-42)	Originals. Map sketches, drawings Photographic tracing processes. Blueprints (cyanotypes). Diazos etc.
(083.53)	Numeric tables. Percentage tables. Ready reckoners	(084.3-43)	Multicoloured copies on plastics (proof sheets)
(083.57)	Nomograms	(084.3-44)	Originals for printing (metals, stone etc.)
(083.58)	Network diagrams. Critical path diagrams (arrow diagrams)	(084.3-45)	Printed maps —528.927; 655.3.026
(083.71)	Definitions	(084.3-5)	According to type of storage
(083.72)	Nomenclatures	(084.3-52)	Not mounted. Flat. Rolled
(083.73)	Codes. Cryptographies. Keys	(084.3-54)	In book form
(083.74)	Standards	(084.3-56)	Mounted
(083.75)	Specifications		Common auxiliaries (continued)
(083.76)	Patterns. Samples	(084.31)	Sketch maps. Map drawings
(083.77)	Comparative presentation —Table I(i).001.36	(084.32)	Map sheets. Individual sheets
(083.78)	Estimates of cost. Tenders	(084.33)	Pocket maps
(083.81)	Lists in general —(01); 01	(084.35)	Wall maps
(083.82)	Inventories	(084.4)	Atlases
(083.84)	Stock records. Stores lists. Warehouse lists	(084.41)	General geographic atlases (non-thematic)
(083.86)	Tables of contents. Indexes of names, places, subjects	(084.42)	Thematic atlases
(083.87)	Concordances —001.86; 014.5; 22.03	(084.5)	Pictorial posters
(083.92)	Plans	(085)	Publications of business firms (Industrial, commercial). Commercial publicity, information, advertising material
(083.94)	Projects	(085.2)	Trade catalogues. Industrial catalogues
		(085.3)	House journals. Company magazines
		(085.6)	Price lists for goods
		(085.7)	Price lists for services. Tariffs
		(085.8)	Advertisements
		(086)	Three-dimensional (solid) documents. Audio and audiovisual documents

- (086.3) Specimens, objects as documents.
Microscope slides. Museum pieces etc.
- (086.4) Solid, three-dimensional representations
—(0.024)
- (086.42) Modelling sheets. Flat designs for cut-out models. Networks plotted for solid geometric models
- (086.43) Globes
—(084.3); 912
- (086.44) Reliefs (solid). Relief models. Relief maps
- (086.45) Block diagrams (three-dimensional)
—(084.29)
- (086.48) Models
- (086.7) Audio documents. Sound recordings
- (086.72) Mechanical sound recordings, e.g. gramophone records (discs etc.)
- (086.74) Magnetic sound recordings, e.g. magnetic tape
- (086.76) Optical sound recordings. Sound on film
- (086.8) Audiovisual recordings. Videotape etc.
—(084.14)
- (088) Attestations. Special-purpose documents
- (088.2) Certificates, licences etc. issued by authorities
- (088.22) Identity and nationality certificates. Passports. Identity cards etc.
- (088.24) Licenses giving right to practise profession, conduct business, possess or drive vehicles etc. Driving licenses. Firearms certificates (gun licenses) etc.
- (088.27) Certificates of property, ownership. Identification, registration papers. Title deeds etc.
- (088.4) Contracts. Written agreements
- (088.72) Trademarks. Commercial marks and devices
—347.77
- (088.77) Marks and certifications of quantity and quality of goods
—(083.74/.76)
- (088.8) Patents. Patent applications. Patent specifications. Descriptions of inventions
—347.77; 608
- (089.3) Curiosities. Miscellanies. Varia. Anecdotes. Facetiae. Aphorisms. Maxims etc.
- (089.5) Frauds. Deceptions. Literary, artistic, scientific hoaxes
—001.94/.98
- (09) **Presentation in historical form. Legal and historical sources**
- (091) Historical presentation in the strict sense
—93
- (092) Biographical presentation
—929
- (093) Historical sources
- (093.2) Official sources. Public records, documents, acts
- (093.3) Literary sources. Chronicles. Diaries
- (094) Legal sources. Legal documents
—340.13/.14
- (094.1) Enactments of absolute government in general. Royal decrees, edicts, ordinances
- (094.2) International agreements and treaties. International laws. Enactments between independent states
- (094.4) Law books and legal problems (textbooks)
- (094.5) Individual laws. Simple laws and detailed regulations resulting from them. Bills (draft laws). Acts
- (094.57) Decrees, rescripts, edicts of central authority, arising from a law. Ordinances of the executive. Orders in Council (UK). Executive Orders (USA)
- (094.58) Decisions of central authority in application of a law. Promulgations. Regulations
- (094.7) Legal sources emanating from administrative authorities of various grades
- (094.8) Legal sources emanating from courts of justice
- (094.9) Collections of legal documents. Collections of rulings, legal decisions. Legal case-books

TABLE I(•) COMMON AUXILIARIES OF PLACE

Symbol (1/9) (brackets-one-to-nine)

Scope. The place auxiliaries indicate the geographical range, locality or other spatial aspect of a subject denoted by a main UDC number, e.g.

331.2(44) Wages in France

338.47(81) Economics of transport in Brazil

They also form the basis for the parallel division of 913/919 'Regional geography' and 93/99 'History', by deleting the brackets and prefixing 91 or 9 respectively. Thus:

(44) France

hence

914.4 Geography of France
944 History of France

One can, therefore, use 913/919 to specify place, in colon combinations with other main numbers, e.g.

339.5.053:917.3 Trade balance of the USA

Inversion of the compound, 917.3:339.5.053, would produce an added entry, and so the information would also file in the geography section. But a sequence based on place could also be created by citing the place auxiliary first:

(73)339.5.053 USA - trade balance
339.5.053(73) Trade balance - USA

Exceptionally, the place auxiliary alone might be adequate for classifying some kinds of documents where the place aspect is the only one likely to be sought (e.g. some maps)

Special auxiliaries. The special auxiliary subdivisions listed under (1) are equally applicable throughout (2/9) by detaching the hyphen and following digits, and adding them after any other number in the table; but they are also useful in the form in which they are listed e.g.

(1-08) Unexplored regions (anywhere on Earth)

(811.3-08) Unexplored regions of the state of Amazonas, Brazil

Further subdivision of the place auxiliaries. In general, the political section of the following table, (4/9), is subdivided as far as counties, departments or equivalent administrative units. Smaller units may be denoted in two ways by using the (1-2/-3) special auxiliaries, either at the number for the high-level unit (country, state) or at that for the lower-level unit (county, department), e.g.

(44) France

(44-2) Towns of France

(44-37) Arrondissements of France

or:

(441.1) Département of Finistère

(441.1-2) Towns of Finistère

(441.1-37) Arrondissements of Finistère

Systematic table**(1) PLACE AND SPACE IN GENERAL. LOCALIZATION. ORIENTATION****Common auxiliary signs**

(1: ...)

One place in relation to another, e.g.

(44:450) France in relation to Italy

339.5(44:450) Trade relations between France and Italy

(1= ...)

Place with reference to race. Ethnic zones

Details by Table I(f) Common auxiliaries of race and nationality, e.g.

(494=30) German Switzerland

(494=40) French Switzerland

(494=50) Italian Switzerland

Special auxiliary subdivisions

(1-0/-9)

BOUNDARIES AND SPATIAL FORMS OF VARIOUS KINDS*The (-0/-9) special auxiliaries may be combined with the (2/9) common auxiliaries to denote specific parts of geographic concepts, e.g.*

(430-04) The boundaries of Germany

They may also be used with (1), with a general significance, e.g.

(1-04) Boundaries in general

(1-0)

Zones. General neighbourhood of particular places

(1-04)	Limiting zones. Boundaries —(1-192)	(1-197.6) (1-197.8)	Above. Upperside. Upwards One above the other. Superimposed.
(1-05)	Areas or regions (of the Earth) according to shape	(1-198)	Layered. Stratified
(1-051)	Elongated areas. Strips	(1-198.2)	Inclination. Gradient
(1-052)	Areas with straight or slightly curved boundaries (except strips)	(1-198.4)	Vertical
(1-053)	Areas with mainly curved or non-straight boundaries (except strips)	(1-198.6)	Inclined. Sloping. Oblique. Skew
(1-054)	Areas of special or irregular shape	(1-199)	Horizontal
(1-056)	Areas according to spatial coherence, contiguity etc.	(1-2/-4)	Position undefined. Free. Free-moving
(1-056.2)	Whole areas. Integral areas		Political units. Administrative units
(1-056.4)	Included areas (enclaves). Excluded areas (exclaves)		<i>The (-2/-4) auxiliaries, like all the special auxiliaries here, are applicable to (3/9), in which case they refer to specific localities; used in the form in which they are listed here, they refer to the administrative unit in general and related affairs</i>
(1-056.42)	Enclaves	(1-2)	Lowest administrative units. Localities.
(1-056.44)	Exclaves		Districts (UK). Communes (France).
(1-07)	Military zones during war and post-war periods		Gemeinden (Germany)
(1-071)	Front	(1-21)	Municipalities. Urban... Urban districts
(1-072)	Rear	(1-22)	Village communities, parishes. Rural... Rural districts
(1-073)	Conquered territory	(1-24)	Joint local administrative units. Cantons (France). Aemter (Germany)
(1-074)	Occupied zones		Capital cities. Metropolises
(1-075)	Non-occupied territory	(1-25)	Intercommunal groupings, e.g. for vocational training, water supply
(1-076)	Surrendered territory	(1-28)	Independent functional authorities, jurisdictions
(1-077)	Zones without military installations.		Dike-building associations. Improvement boards. Polder boards
(1-077.2)	Weapon-free zones. Demilitarized zones	(1-29)	Larger units within the state
	Zones free of particular weapons.		Higher-level administrative units. Provinces
	Non-nuclear zones (atomic-weapon-free zones) etc., e.g.	(1-291)	Inter-provincial. Higher-order communal associations
	(430-077.2) Non-nuclear zones in Germany	(1-3)	Middle-level administrative units. Counties (UK). Départements (France).
(1-077.4)	Zones free of particular military installations	(1-32)	Regierungsbezirke (Germany)
(1-077.6)	Disarmament zones. Demilitarized zones	(1-328)	Lower-level administrative units.
(1-078)	Territories under control of a counter-government (rival government)	(1-35)	Arrondissements (France). Kreise (Germany)
(1-08)	Unknown, unexplored regions and zones		Units of highest (state) level. Nations. States.
(1-1)	Orientation. Points of the compass. Relative position	(1-37)	Confederations
(1-11)	East. Eastern. Orient	(1-4)	Confederations of states. Federations.
(1-12)	South-east. South-eastern		Commonwealths, e.g.
(1-13)	South. Southern	(1-41)	(430.1-41) Germany as a Federal Republic
(1-14)	South-west. South-western		([47+57]-41) USSR as a confederation
(1-15)	West. Western. Occident		(494-41) Switzerland as a confederation
(1-16)	North-west. North-western		(73-41) USA as a federation
(1-17)	North. Northern		(94-41) Australia as a Commonwealth
(1-18)	North-east. North-eastern		Constituent states within a confederation.
(1-19)	Relative location, direction and orientation		Federal states. Länder. Autonomous republics etc., e.g.
(1-191)	Internal spatial relationships. Inside. Within. Endo-...	(1-43)	(494-43) Swiss cantons
(1-191.2)	Central. In the middle		(73-43) States of the USA
(1-191.4)	Movement in relation to the centre		(94-43) Australian states
(1-191.42)	Centripetal		(944-43) New South Wales as a state of the Commonwealth of Australia
(1-191.44)	Centrifugal		Empires. Combination of mother-country, dominions and colonies, e.g.
(1-191.6)	Eccentric. Not in the middle		(41-44) British Commonwealth and Empire generally
(1-191.8)	Peripheral. At the edge		Non-federal sovereign states
(1-192)	Position in relation to a border or frontier	(1-44)	Territories geographically separated from the mother country but integrated in its administration
(1-192.2)	Adjacent. Bordering. Touching		Dependent or semi-dependent territories
(1-192.4)	Overlapping. Intruding into		Dependent territory administered by a specific state, e.g.
(1-192.6)	On this side. Cis-...		(481-51:99) Norwegian Antarctic territory
(1-192.7)	On the other side. Trans-...	(1-45)	Colonized territory. Colonies, e.g.
(1-192.8)	Opposite. Facing	(1-46)	(6-52) Colonized territory in Africa
(1-194)	External special relationships. Outside. Exo-...		(676.2-52) Kenya as a colony
(1-194.2)	Alongside. Adjoining. Nearby. Close		Concessions (territorial), e.g.
(1-194.4)	Half-way. Midway	(1-5)	(512.317-53) The New Territories of Hong Kong as a leased territory
(1-194.6)	Far off. Far away. Distant. Wide apart	(1-51)	Dependent or semi-dependent territories with special statute
(1-195)	Lengthwise. Longitudinal relations		Protectorates, e.g.
(1-195.2)	In front. Front. Forward		(676.1-542) Uganda as a protectorate
(1-195.4)	Mid-length. Mid-part. Midships (amidships)	(1-52)	Mandate (League of Nations). Trusteeship (United Nations), e.g.
(1-195.6)	Behind. Back. Backward. Aft		
(1-195.8)	In line. In series. End-to-end		
(1-196)	Sideways. Lateral relations	(1-53)	
(1-196.2)	Right. Right side. Starboard. Toward the right		
(1-196.4)	Centre-line. Mid-line. Median line		
(1-196.6)	Left. Left side. Port. Toward the left	(1-54)	
(1-196.8)	Side-by-side. Alongside. In parallel		
(1-197)	Relative level (above/below)	(1-542)	
(1-197.2)	Below. Underneath. Downwards		
(1-197.4)	Mean or average level	(1-544)	

(1-544) (cont'd)	(569.1-544) Syria as a mandated territory	(1-923)	Antarctic regions. Antarctica
(1-546)	Condominium, e.g.	(1-923.1)	Central Antarctic plateau
	(934-546:410+44) New Hebrides as	(1-923.2)	Coastal regions of Eastern Antarctica
	British-French	(1-923.3)	West Antarctica. Lesser Antarctica
	condominium	(1-923.4)	Subantarctic islands
(1-55)	Territories in transition between dependence	(1-924/-925)	Physical regions of Eurasia
	and independence, e.g.	(1-924)	Physical regions of Europe. Europe as a
	(549.3-55) East Pakistan during its		physical region
	secession (becoming	(1-924.1)	Northern Europe
	Bangladesh)	(1-924.11)	Iceland
(1-6)	Groupings of states	(1-924.12)	Jan Mayen
(1-61)	Groupings from the point of view of	(1-924.13)	Faeroes
	sovereignty	(1-924.14)	Scandinavian Peninsula
(1-612)	Groupings without surrender of sovereignty	(1-924.15)	Finland and Karelia
(1-615)	Groupings with partial surrender of	(1-924.16)	Kola Peninsula
	sovereignty	(1-924.2/.3)	Western and Northern Central Europe
(1-618)	Groupings with total surrender of sovereignty	(1-924.21/.22)	British Isles
(1-62)	Alliances. Ententes. Unions, e.g.	(1-924.21)	Island of Ireland
	(44-62) France and its allies	(1-924.22)	Great Britain and minor islands
(1-65)	Wartime groupings of states	(1-924.23)	Atlantic France
(1-651)	Belligerent states	(1-924.3)	Northern Central Europe
(1-651.1)	Aggressor	(1-924.31)	Northern Central European lowlands
(1-651.2)	Attacked	(1-924.32)	Hercynian Central Europe
(1-652)	Neutral states	(1-924.4/.5)	Alps and Carpathian regions
(1-7)	Areas and spheres of private or collective	(1-924.4)	Alps region (including Jura and Lombardic
	activity		Lowland)
(1-71)	Private spheres of activity. Individual activity.	(1-924.41)	Jura
	Family activity	(1-924.42)	Northern Alpine foreland
(1-72)	Collective spheres of activity. Association	(1-924.43)	Alps
	activity. Group activity	(1-924.44)	Lombardic Lowland (Venetian and Po plains)
(1-73)	Federative spheres of activity. Combine,	(1-924.5)	South-eastern Central Europe
	trust, cartel activity etc.	(1-924.51)	Western Carpathians
(1-74)	Common spheres of activity for social groups	(1-924.52)	Eastern Carpathians
	and public authorities. Monopolies. Public	(1-924.53)	Southern Carpathians
	and semi-public concessions. Mixed trading	(1-924.54)	West Romanian mountains. Transylvania.
	concessions		Transylvanian Alps
(1-77)	Areas according to stage of development	(1-924.55)	Pannonian Basin
(1-772)	Undeveloped, underdeveloped areas	(1-924.56)	Lower Danubian plains. Walachia. Dobruja
(1-773)	Developing countries	(1-924.57)	Stara Planina (Balkan mountains)
(1-775)	Developed areas. Highly developed areas	(1-924.6)	Mediterranean Southern Europe
(1-8)	Location. Source. Transit. Destination etc.	(1-924.61)	Iberian Peninsula with Balearic islands
(1-81)	Location. Place of manifestation	(1-924.62)	Central Mediterranean islands
(1-82)	Source. Place of origin. Source of supply, e.g.	(1-924.63)	Appenine Peninsula
	[663.551.5:663.43](410.5-82) Scotch	(1-924.64)	Balkan Peninsula
	whisky	(1-924.71)	Crimea
(1-83)	Place of transit. Transit area	(1-924.72/.76)	Caucasus
(1-85)	Destination	(1-924.8)	Russian Plain (East European Plain)
(1-86)	Place in a conventional sense, i.e. used in a	(1-924.81)	Tundra and Forest Tundra region
	limited sense as descriptive of some	(1-924.82)	Northern and Central Tayga sub-region
	particular article, e.g.	(1-924.83)	Central and Eastern Russian plain
	677.074.58(55-86) Persian carpets	(1-924.84)	Western Russian Plain
(1-87)	Foreign. Alien to	(1-924.85/.86)	Southern Russian Plain
(1-89)	Places in their earlier, historical status	(1-924.85)	Forest-Steppe region
(1-92)	Regionalization of the Earth according to	(1-924.86)	Steppe region
	physiogeographical features	(1-924.9)	Ural region
	<i>These special auxiliaries are for classifying</i>	(1-925)	Physical regions of Asia. Asia as a physical
	<i>natural regions defined by convention.</i>		region
	<i>These cover the whole Earth's surface,</i>	(1-925.1)	Northern Asia (Siberia and Soviet Far East)
	<i>and include areas which belong together</i>	(1-925.11/.16)	Siberia
	<i>because of their natural features</i>	(1-925.11)	West Siberian lowlands
	<i>(topographical and ecological) or their</i>	(1-925.12)	Middle and Central Siberia
	<i>position. They may be used in</i>	(1-925.13)	Lena basin. Central Yakutia (Yakutia basin)
	<i>combination with (4/9) for continents,</i>	(1-925.14)	North-eastern Siberia
	<i>without regard to state and administrative</i>	(1-925.15)	Altai and Sayan Mountains
	<i>boundaries, e.g.</i>	(1-925.16)	Baikal region and Transbaikalia
	(4-92) Physical regions of Europe	(1-925.17)	Southern Soviet Far East
	<i>(further details by subdivisions of (-924))</i>	(1-925.18)	Kamchatka. Kuriles
	<i>or with the auxiliaries for</i>	(1-925.19)	North-eastern Soviet Far East
	<i>political-administrative areas, e.g.</i>	(1-925.2)	Soviet Central Asia
	(47-92) Physical regions of European	(1-925.3)	Central Asia, including Himalayas
	USSR	(1-925.35)	Tibet
	<i>(details by subdivisions of (-922), (-924))</i>	(1-925.36)	Himalayas
	<i>For purely political-administrative</i>	(1-925.4/.5)	Western Asia
	<i>information, use (4/9) alone</i>	(1-925.4)	Anatolo-Iranian Plateaus
(1-922)	Arctic regions	(1-925.41)	Anatolian Plateau
(1-922.1)	European Arctic islands	(1-925.42)	Armenian Plateau
(1-922.2)	Asian Arctic islands	(1-925.43)	Elbruz Mountains and South Caspian coast
(1-922.3/.4)	Western Arctic islands (American Sector)	(1-925.44)	Iranian Plateau
(1-922.3)	Canadian Arctic islands. Baffin island	(1-925.45)	Hindu Kush
(1-922.4)	Greenland		

(1-925.5)	South-western Asia (Arabian-Mesopotamian regions)	(1-929.5/6)	Melanesia
(1-925.51)	Levant	(1-929.5)	New Guinea
(1-925.52)	Mesopotamia	(1-929.6)	Melanesian archipelago. Islands of Melanesia
(1-925.53)	Arabian Peninsula	(1-929.7)	Micronesia
(1-925.54)	Sinai Peninsula	(1-929.8)	Polynesia. Easter Island
(1-925.6)	Southern Asia. Indian subcontinent (except Himalayas)	(1-929.9)	Hawaiian Islands
(1-925.61)	Indus-Ganges Lowland	Common auxiliaries (continued)	
(1-925.62)	Indian Peninsula, including Deccan	(100)	Universal as to place. International. All countries in general
(1-925.63)	Ceylon		<i>Up to three countries may be denoted by the auxiliaries for the individual countries, e.g.</i>
(1-925.7)	East Asian monsoon region		(44 + 460) France and Spain
(1-925.71)	Japanese archipelago		<i>Where more than three countries are concerned, one (or each, by multiple entry) may be specified, in relation to (100), e.g.</i>
(1-925.73)	North-eastern China and Korea		(44 + 100) France and various other countries
(1-925.75)	Eastern China		<i>The totality of all or many countries is denoted by (100) alone, e.g.</i>
(1-925.8)	Indo-China		061.2(100) International organizations
(1-925.9)	South-east Asian islands, including Malay Archipelago		Space-time continuum (four-dimensional).
(1-925.91)	Philippines		The universe, celestial or cosmic space generally. In Space. Cosmic. Extraterrestrial localities
(1-925.92)	Central Malay region		→ 115.4
(1-925.93)	Lesser Sunda Islands		The whole of Space
(1-926)	Physical regions of Africa. Africa as a physical region	(15)	A part of Space
(1-926.1)	African western Mediterranean region		Region of the Solar System
(1-926.11)	Atlas Mountains		→ 523
(1-926.12)	Azores, Madeira and Selvagen Islands (Macronesia)		Enviorns of the Solar System up to a certain distance
(1-926.13)	Canary Islands	(151.1)	The local stellar system
(1-926.2)	Sahara. Nile valley	(151.2)	Region of the Galaxy (Milky Way)
(1-926.3)	Sudan (sub-Saharan Africa)	(151.21)	→ 524.6
(1-926.4/.5)	Equatorial Africa		Planar position. Position on a surface
(1-926.4)	Upper Guinea (North Guinea)	(151.22)	Place of observation
(1-926.5)	Congo Basin and surrounding area.		Number per unit of surface area. Surface density or distribution
	Lunda-Katanga. Gulf of Guinea islands. St. Helena. Ascension	(151.23)	Surface area
	Abyssinian highlands. Somalia	(151.24)	Zones of declination
(1-926.6)	East African highlands. Rift valley	(154.1)	Equatorial zone
(1-926.7)	Southern Africa. Lowlands of Mozambique and Natal	(154.3)	Circumpolar zones
(1-926.8)	Madagascar. Islands in the western Indian Ocean	(154.4)	The Zodiac
(1-926.9)	Physical regions of North and Central America. North and Central America as a physical region	(154.5)	Galactic zones
(1-927)	Alaskan Cordilleras	(155.1)	Planets, their regions and localities
(1-927.1)	Canadian Cordilleras (Northern Rockies)	(155.11)	The Moon, its regions and localities
(1-927.2)	Central Cordilleras (Southern Rockies)	(155.12)	→ 523.34
(1-927.3)	Southern Cordilleras (Mexican Highlands)	(155.2)	Places and areas of the Earth according to geographical coordinates or grids
(1-927.4)	Mackenzie Basin. Laurentian Plain. Labrador	(155.3)	→ 528.28
(1-927.5)	Interior plains. Great Plains. Great Lakes. St Lawrence region	(157)	Geographical meridians and parallels. Poles.
(1-927.6)	Appalachians	(158)	Points on the Earth according to geographical coordinates
(1-927.7)	Coastal lowlands of North America	(16)	Longitudes. Meridians
(1-927.8)	Caribbean region. Central America. West Indies. Bermuda	(160)	(160.1-11) Eastern longitudes
(1-927.9)	Physical regions of South America. South America as a physical region	(160.1)	(160.1-15) Western longitudes
(1-928)	Northern Andes		Latitudes. Parallels
(1-928.1)	Central Andes	(160.2)	(160.2-13) Southern latitudes
(1-928.2)	Subtropical Andes		(160.2-17) Northern latitudes
(1-928.3)	Patagonian Andes. Tierra del Fuego archipelago	(160.20)	Equator
(1-928.4)	Patagonia. Falkland Islands	(160.23)	Tropics
(1-928.5)	Interior plains of south-eastern South America. Pampas Sierras. La-Plata Plains.		(160.23-13) Southern: Tropic of Capricorn
(1-928.6)	Marmoré, Mojos and Pantanal Plains	(160.26)	(160.23-17) Northern: Tropic of Cancer
(1-928.7)	Brazilian highlands		Polar circles
(1-928.8)	Amazon basin		(160.26-13) South Polar Circle (Antarctic Circle)
(1-928.9)	Caribbean North of South America. Orinoco basin. Guiana highlands		(160.26-17) North Polar Circle (Arctic Circle)
(1-929)	Australasia. Physical regions of Australia and Oceania. Australia and Oceania as a physical region	(160.27)	Poles
(1-929.1/.3)	Australia	(161/164)	(160.27-13) South Pole
(1-929.1)	West Australian Plateau		(160.27-17) North Pole
(1-929.2)	Interior Australian depression. Selwyn Heights		Place according to quadrants
(1-929.3)	East Australian Highlands. Tasmania		<i>The Earth's surface is divided into four quadrants: two northern, 0° - 180° E and 0° - 180° W of Greenwich, and two southern, 0° - 180° E and 0° - 180° W of Greenwich, numbered (161) to (164)</i>
(1-929.4/.9)	Oceania		
(1-929.4)	New Zealand and adjacent islands		

(161/164) (cont'd)	<i>Further subdivision by three-figure and two-figure notation for degrees longitude and latitude respectively, delineating the western and southern boundaries of the area concerned, e.g.</i>	(207.3) (207.4) (208)	In the plant kingdom In the animal kingdom In human surroundings. In human society. In social, artificial milieu
	(161.007.49) River Nahe and western Rheinpfaiz area - 7° E, 49° N	(21)	Surface of the Earth in general. Land areas in particular. Natural zones and regions —551.4; 551.8
(161)	Places in the northern quadrant, 0° to 180° east of Greenwich, e.g.	(210)	Land formations
	(161.000.51) Kent, England - 0° E, 51° N	(210.1) (210.2) (210.3) (210.4)	Peninsulas Capes. Promontories Headlands. Tongues of land Isthmuses. Necks of land
	(161.106.48) Ulan Bator, Mongolia - 160° E, 48° N	(210.5) (210.7)	Coasts. Beaches. Banks. Shores. Littoral... Islands
(162)	Places in the northern quadrant, 0° to 180° west of Greenwich, e.g.	(211/213) (211)	Climatic zones Cold regions. Polar regions. Frigid regions (211-13) South polar regions. Antarctic regions (211-17) North polar regions. Arctic regions
	(162.082.24) Key West, Florida, USA - 82° W, 24° N		
	(162.158.01) Christmas Island - 158° W, 1° N		
(163)	Places in the southern quadrant, 0° to 180° east of Greenwich, e.g.	(211.6) (211.7) (212)	Ice-cap climate Tundra Intermediate and subpolar regions.
	(163.026.18) Victoria Falls (R. Zambezi) - 26° E, 18° S		Temperate zones. Mid-latitude climatic regions
	(163.138.35) Gulf of St. Vincent near Adelaide, South Australia - 138° E, 35° S		(212-13) South temperate zone (212-17) North temperate zone
(164)	Places in the southern quadrant, 0° to 180° west of Greenwich, e.g.	(212.3)	Cold intermediate regions. Subpolar regions.
	(164.070.16) Lake Titicaca - 70° W, 16° S	(212.4) (212.5) (212.6) (212.7) (213)	Coniferous Forest Belt Cool temperate regions Warm temperate regions Mid-latitude steppe regions Mid-latitude desert regions
	(164.150.18) Tahiti - 150° W, 18° S		Subtropical and tropical regions. Torrid zone.
(18)	Spatial measurements or dimensions <i>Details by colon combination with (2...), e.g.</i>		Subtropical and tropical generally, e.g. 69.03(213.5) Tropical building
	(23:181) Heights (above sea-level)	(213.1)	Subtropical regions generally
	(24:181) Depths (below sea-level)	(213.12)	Dry subtropical regions
	(24:183) Volume. Cubic capacity (of caves etc.)	(213.14)	Wet or humid subtropical regions. Cotton Belt type
	(25:182) Surface areas. Areas of land		Tropical regions. Torrid zone. Tropics
	(26:181) Ocean or sea depths	(213.5) (213.52) (213.54)	Hot dry or arid regions. Hot desert Savanna. Tropical grassland regions with gallery forest
(181)	One-dimensional measurements. Linear dimensions. Distances. Lengths etc. <i>For precise distances, add standard international abbreviation for unit, followed by actual figures, e.g.</i>	(213.55) (213.56)	Monsoon regions Hot humid regions. Equatorial forest regions.
	(181m100) 100 metres		Tropical forest regions
	(181km427) 427 kilometres	(215)	Hemispheres
(182)	Two-dimensional measurements. Square dimensions. Areas <i>Details as (181), e.g.</i>		(215-11) Eastern hemisphere (215-13) Southern hemisphere (215-15) Western hemisphere (215-17) Northern hemisphere
	(182m2000) 2000 square metres		Former continents. Pangaea. Laurentia.
(183)	Three-dimensional measurements. Cubic dimensions. Volumes <i>Details as (181), e.g.</i>	(217)	Fennosarmatia. Angaria (Angaraland). Gondwanaland. Serindia. Sinia. Philippina —(309)
	(183m150) 150 cubic metres		Above sea-level. Surface relief. Above ground generally. Mountains — note at (18) and examples, e.g.
(188)	Relative size of places, areas, spaces	(23)	(23:181) Heights above sea-level (23:181m4500) Mountains with height of 4500 m above sea-level
(188.2)	Very small. Part of a small area		
(188.3)	Small. Part of a medium-sized area		
(188.5)	Medium-sized. Moderate-sized. Part of a large area		
(188.7)	Large. Part of a very large area		
(188.8)	Very large. Huge areas		
(2)	PHYSIOGRAPHIC DESIGNATION		
(20)	Ecosphere	(23.0) (23.01) (23.02) (23.03) (23.04)	In mountainous country. In the mountains Lower mountains Medium mountains. Mid-mountain High mountains. Higher parts of mountains Orological formations. Mountain chains. Terraces. Valleys —551.43
(202)	Extra-atmospheric space. In outer space		Other formations in mountains (23.06) ≈ 551.311.2/.8
(203)	In the atmosphere. In the air. Aerial —551.510		Limits of altitude. Height zones
(203.1)	Thermosphere. Outermost atmospheric space	(23.06)	Tree zones. Limits of trees
(203.3)	Mesosphere (upper boundary: mesopause)	(23.07) (23.07.1) (23.073)	Treeless vegetation zones. Limits of vegetation
(203.5)	Stratosphere (upper boundary: stratopause)		Snow zones. Limits of snow
(203.7)	Troposphere (upper boundary: tropopause)		Common auxiliaries (continued)
(204)	Of the hydrosphere. In the water. Aquatic —(26); (28); 556		(234) (234.1)
(204.1)	Underwater		Mountains of Europe
(204.2)	Floating		Mountains of the Iberian peninsula
(205)	Lithosphere. Earth's mantle. Centrosphere		
(205.2)	Lithosphere. Outer crust. Surface layer		
(205.4)	Centrosphere. Earth's core. Barysphere		

(234.12)	Pyrenees. Monte Perdido. Maladetta	(234.322.4)	Austrian Alps
(234.13)	Catalonian Mountains. Montserrat	(234.322.45)	Molln Alps
(234.17)	Sierra Nevada. Mulhacén	(234.322.46)	Wienerwald
(234.2)	Mountains of France and Belgium	(234.323)	Southern limestone Alps
(234.23)	Armorican Massif	(234.323.1)	Lombardic Alps
(234.24)	Massif Central	(234.323.2)	Etschbucht Alps (Alps of the Adige Bay)
(234.241)	Western part of Massif Central. Monts de la	(234.323.3)	South Tyrolean highland
	Marche. Mont du Limousin	(234.323.4)	Venezia Alps
(234.242)	Monts d'Auvergne	(234.323.5)	Carnic Alps
(234.243)	Eastern part of Massif Central. Monts du	(234.323.6)	Julian Alps
	Vivarais. Monts du Lyonnais. Monts du	(234.323.61)	Karawanken
	Beaujolais. Monts du Charollais etc.	(234.351)	Jura Mountains
(234.243.1)	Cévennes		—(234.547); (234.548)
(234.251)	Côte d'Or	(234.351.1)	French Jura
(234.252)	Morvan	(234.351.2)	Swiss Jura (Kettenjura)
(234.261)	Plateau de Langres	(234.351.3)	German Jura (Tafeljura)
(234.262)	Monts Faucilles	(234.371)	Mountains of Austria
(234.27)	Vosges		—(234.322.4)'
	—(234.524)	(234.371.1)	Leithagebirge
(234.28)	Ardennes	(234.372)	Mounts of Czechoslovakia
	—(234.512)		—(234.58)
(234.29)	Argonne	(234.372.3)	Western Carpathians
(234.3)	Alps		—(234.421.1)
(234.31)	Western Alps	(234.372.4)	Beskids. Tatra. Slovak Ore Mountains
(234.311.1)	Ligurian Alps	(234.373)	Mountains of Hungary
(234.311.2)	Cottian Alps	(234.373.1)	Bakony
(234.311.3)	Graian Alps	(234.373.2)	Vértes
(234.311.4)	Pennine Alps	(234.373.3)	Matra
(234.311.5)	Lepontine Alps	(234.373.4)	Bükk
(234.311.51)	Ticino group	(234.373.5)	Hegyalja
(234.311.52)	Simplon group	(234.373.6)	Mecsek
(234.311.53)	St. Gotthard group	(234.41)	Mountains of the Italian peninsula. Appenines
(234.311.54)	Adula group	(234.411)	Ligurian Appenines
(234.312.1)	Maritime Alps	(234.412)	Tuscan Appenines
(234.312.2)	Alpes du Dauphiné	(234.413)	Etrurian Appenines
(234.312.3)	Savoy Alps	(234.414)	Roman Appenines
(234.312.31)	Massif du Mont Blanc	(234.415)	Abruzzi. Gran Sasso
(234.312.32)	Dent du Midi group	(234.416)	Sabine Mountains
(234.312.4)	Freiburg Alps	(234.417)	Neapolitan Appenines
(234.312.5)	Bernese Alps	(234.42)	Mountains of the Balkan Peninsula
(234.312.6)	Emmental Alps	(234.421)	Mountains of Romania (Rumania)
(234.312.7)	Glarus Alps (Glarner Alpen)	(234.421.1)	East Carpathians
(234.312.8)	Schwyz Alps	(234.421.2)	Transylvanian Alps
(234.312.9)	Appenzeller Alps	(234.422.1)	Dinaric Alps
(234.313)	French limestone Alps	(234.422.2)	North Albanian Alps
(234.313.1)	Provençal Alps	(234.423)	Mountains of Bulgaria
(234.313.2)	Jura	(234.424)	Mountains of Turkey in Europe
(234.313.3)	Chablais	(234.425)	Mountains of Central Greece
(234.32)	Eastern Alps	(234.425.1)	Olympus
(234.321)	Central Gneiss Alps	(234.425.2)	Ossa
(234.321.1)	Rhaetic Alps	(234.425.3)	Pelion (Pilion)
(234.321.12)	Silvretta group	(234.425.4)	Othris
(234.321.13)	Bernina group	(234.425.5)	Pindus
(234.321.15)	Oetzal Alps	(234.425.6)	Parnassus
(234.321.16)	Adamello group	(234.425.7)	Helicon
(234.321.17)	Ortles group	(234.425.8)	Pentelicus
(234.321.2)	Hohe Tauern	(234.425.9)	Hymettos
(234.321.21)	Zillertal Alps	(234.426)	Mountains of the Peloponnese. Taygetus
(234.321.22)	Venediger group	(234.5)	Mountains of Central Europe
(234.321.23)	Glockner group	(234.51)	Rhine schist mountains
(234.321.3)	Niedere Tauern	(234.511)	Hohes Venn
(234.321.31)	Radstadter Tauern	(234.512)	Elfel
(234.321.32)	Schladminger Tauern		—(234.28)
(234.321.33)	Rottenmanner Tauern	(234.513)	Hunsrück
(234.321.4)	Noric Alps	(234.515)	Rothaargebirge
(234.321.41)	Gurktal Alps	(234.516)	Siebengebirge
(234.321.42)	Lavanttal Alps	(234.517)	Westerwald
(234.321.5)	Cetic Alps	(234.518)	Taunus
(234.321.6)	Plessur Alps	(234.52)	Mountains of the Upper Rhine Rift Valley
(234.321.7)	Salzburg Schist Alps	(234.521)	Pfälzer Bergland
(234.321.8)	Eisenerzer Alpen	(234.522)	Haardt
(234.322)	Northern limestone Alps	(234.524)	Vosges (Vogesen)
(234.322.1)	Allgäuer Alpen		—(234.27)
(234.322.11)	Rhätikon	(234.525)	Odenwald
(234.322.12)	Lechtaler Alpen	(234.527)	Black Forest (Schwarzwald)
(234.322.2)	North Tyrolean limestone Alps	(234.53)	Weserbergland and Harz
(234.322.21)	Wettersteingebirge	(234.531)	Teutoburger Wald
(234.322.22)	Karwendelgebirge	(234.532)	Egge
(234.322.24)	Kaisergebirge	(234.534)	Wesergebirge
(234.322.3)	Salzburg limestone Alps	(234.538)	Soiling

(234.539)	Harz	(235.225)	Khangai Mountains
(234.54)	Hessisches Bergland. Swabian-Franconian basin. Alpenvorland	(235.226)	Ektag-Altai
(234.541)	Meissner	(235.23)	Central area of Asiatic Plateau. Kuniun
(234.542)	Vogelsberg	(235.24)	Southern area of Asiatic Plateau
(234.543)	Rhön	(235.241)	Karakoram Range
(234.544)	Spessart	(235.242)	Tibetan Plateau
(234.545)	Steigerwald	(235.243)	Himalayas. Mount Everest
(234.547)	Schwäbische Alb	(235.244)	Transhimalayas
(234.548)	Franconian Jura	(235.3)	Mountains of northern Asia
(234.549)	German Alpenvorland	(235.31)	Byrranga Mountains. Mountains of Taimyr Peninsula
(234.55)	Mountains of Thuringia (Thüringen). Mountains of the western edge of the Bohemian Basin	(235.32)	Verkhoyansk Mountains
(234.551)	Thüringerwald	(235.33)	Kolyma Mountains
(234.553)	Fichtelgebirge	(235.34)	Stanovoi Mountains
(234.554)	Böhmerwald	(235.35)	Yablonoi Mountains
(234.555)	Bayerischer Wald	(235.4)	Mountains of eastern Asia
(234.56)	Mountains of Saxony (Sachsen)	(235.41)	Nan Shan
(234.562)	Vogtland	(235.42)	Ch'in Ling
(234.563)	Erzgebirge	(235.43)	T'ai-hang Shan
(234.564)	Elbsandsteingebirge	(235.44)	'Peking Grid' (Barrier Ranges)
(234.565)	Lausitzer Bergland	(234.45)	Great Khingan Mountains
(234.57)	Mountains of Silesia. Sudetes	(235.46)	Little Khingan Mountains
(234.571)	Isergebirge	(235.47)	Sikhote-Alin'
(234.572)	Riesengebirge	(235.48)	Mountains of south-eastern China
(234.573)	Waldenburger Berge	(235.5)	Mountains of southern Asia
(234.575)	Adlergebirge	(235.51)	Mountains of the Indian Peninsula
(234.58)	Mountains of the Bohemian-Moravian Basin	(235.511)	Deccan Plateau
(234.582)	Central Bohemian Range	(235.512)	Western Ghats. Eastern Ghats
(234.6)	Mountains of Great Britain	(235.52)	Mountains of Further India and environs.
(234.61)	Highlands of south-west England. Blackdown Hills. Quantock Hills. Dartmoor. Exmoor. Bodmin Moor	(236)	Arakan Yoma
(234.62)	Mountains of Wales. Brecon Beacons. Cambrian Mountains. Snowdonia	(236.1)	Mountains of Africa
(234.63)	Mountains of northern England	(236.11)	Altas Mountains
(234.631)	Pennine Chain. The Peak. Ross Fell	(236.12)	Er Rif
(234.632)	Cumbrian Mountains. Scafell Pike	(236.13)	Middle Atlas (Moyen Atlas)
(234.64)	Mountains of the Scottish border. Cheviot Hills	(236.14)	High Atlas (Haut Atlas)
(234.65)	Scottish Highlands	(236.15)	Anti-Atlas
(234.651)	Grampians. Ben Nevis	(236.16)	Tell Atlas (Atlas Tellien), Little Atlas
(234.652)	Caledonian Highlands. Ben Wyvis	(236.2)	Saharan Atlas (Atlas Saharien)
(234.7)	Mountains of Scandinavia	(236.21)	Mountains of the Sahara region
(234.72)	Dovre fjell. Snøhetta. Jostedalbreen	(236.22)	Tibesti
(234.73)	Langfjellet. Jotunheimen. Galdhøpiggen	(236.3)	Air
(234.74)	Baltic Shield	(236.31)	Mountains of the Sudan region
(234.8)	Mountains of Russia in Europe	(236.32)	Fouta Djallon
(234.81)	Valdai Hills	(236.33)	Adamawa
(234.84)	Volga Hills. Yergeni Heights (Ergeni Heights)	(236.4)	Darfur Plateau
(234.85)	Urals	(236.5)	Mountains of Lower Guinea and the Cameroons
(234.851)	Northern Urals. Polar Urals	(236.51)	Mountains of north-eastern Africa
(234.852)	Central Urals. Ural ore mountains	(236.52)	Ethiopian Highlands
(234.853)	Southern Urals. Ural forest areas	(236.6)	Somali Plateau
(234.86)	Crimean Mountains. Yaila Mountains. Roman-Kosh	(236.61)	Mountains of the Congo region
(234.9)	Caucasus. El'brus. Kazbek	(236.62)	Lunda Plateau
(235)	Mountains of Asia	(236.63)	Katanga Plateau
(235.1)	Mountains of western Asia	(236.64)	Mitumba Mountains
(235.11)	Black Sea coastal range. Pontine Mountains	(236.7)	Kibara Mountains
(235.12)	Taurus Mountains	(236.72)	Mountains of east Africa
(235.13)	Mountains of northern Iran	(236.73)	Mount Kenya group
(235.131)	Elburz Mountains. Damavand	(236.8)	Kilimanjaro group
(235.14)	Mountains of southern Iran	(237)	Mountains of southern Africa. Drakensberg.
(235.15)	Central Iranian Plateau	(237.11)	Stormberge. Kompasberg etc.
(235.16)	Lebanon. Anti-Lebanon. Mount Hermon. Hauran	(237.12)	Mountains of North America
(235.18)	Mountains of the Sinai Peninsula	(237.13)	Rocky Mountains
(235.2)	Mountains of Central Asia (Asiatic Plateau)	(237.14)	Cascade Range
(235.21)	Western area of Asiatic Plateau	(237.15)	Sierra Nevada
(235.211)	Pamirs	(237.16)	Coast Range
(235.212)	Hindu Kush	(237.2)	Sierra Madre
(235.213)	Trans-Alai Chain	(237.25)	Mexican Plateau. Orizaba. Popocatepetl
(235.216)	Tien Shan	(238)	Appalachian Mountains
(235.22)	Northern area of Asiatic Plateau	(238.1)	Allegheny Mountains
(235.221)	Dzungenian Plateau	(238.11)	Mountains of South America
(235.222)	Altai	(238.12)	Western area. South America Cordillera.
(235.223)	Sayan Mountains	(238.13)	Andes
(235.224)	Tannu-Ola	(238.14)	Colombian Andes
		(238.15)	Ecuador Andes
		(238.16)	Peruvian-Bolivian Andes. Bolivian Plateau
		(238.2)	Chilean Andes. Aconcagua
			Mountains of Tierra del Fuego
			Patagonian Cordillera
			Northern area

(238.21)	Cordillera de la Costa (Venezuelan Coastal Range)	(261.266)	Waters of the east coast of Britain
(238.22)	Gulana Highlands	(261.267)	Strait of Dover
(238.3)	Brazilian Highlands	(261.268)	English Channel
(239)	Mountains of Oceania, the Arctic, the Antarctic	(261.27)	Irish Sea. Western waters of British Isles
(239.1)	Mountains of the Malay Archipelago	(261.273)	St George's Channel and adjacent Welsh and Irish coastal waters
(239.2)	Mountains of the Sunda Islands	(261.274)	Irish Sea (central) and adjacent coastal waters
(239.21)	Mountains of Sumatra. Barisan Chain (Pegunungan Barisan)	(261.275)	North Channel, with Firth of Clyde
(239.3)	Mountains of New Zealand and Melanesia	(261.28)	Bay of Biscay and adjacent French and Spanish coastal waters
(239.4)	Mountains of Australia	(261.4)	North-west Atlantic. Davis Strait
(239.41)	Mountains of eastern Australia. Great Dividing Range	(261.43)	Sea of Labrador
(239.42)	Mountains of southern Australia. Flinders Ranges	(261.44)	Gulf of St Lawrence and adjacent coastal waters of Newfoundland and south-eastern Nova Scotia
(239.43)	Mountains of west Australia	(261.45)	Gulf of Maine
(239.431)	West Australian tableland. Hammersley Range. Barlee Range. Nicholson Range	(261.46)	Waters of the east coast of the USA from Cape Cod to Chesapeake Bay
(239.432)	Darling Range	(261.47)	Chesapeake Bay
(239.44)	Mountains of central Australia. Macdonnell Ranges. Musgrave Ranges	(261.48)	Waters of the south-east coast of the USA from Chesapeake Bay to Florida Strait
(239.5)	Mountains of New Guinea	(261.5)	South Atlantic Ocean generally
(239.6)	Mountains of Polynesia		—(269.4)
(239.8)	Mountains of the Arctic	(261.6)	West and south-west Atlantic
(239.9)	Mountains of the Antarctic	(261.62)	Sargasso Sea
(24)	Below sea-level. Underground. Subterranean	(261.63)	Bahama Sea
	—551.44	(261.64)	Gulf of Mexico
(25)	Natural flat ground (at, above or below sea-level, but generally level). The ground in its natural condition, cultivated or inhabited	(261.65)	Caribbean Sea
	—551.43	(261.66)	Seas and waters of the north-east coast of South America
(251)	Plains. Flat country. Wild, uncultivated land. Barren, waste land. Fallow ground	(261.665)	Gulf of the Amazon
(251.3)	Natural prairies. Savannas	(261.67)	Seas and waters of the coast of Brazil
(252)	Unproductive land. Desert	(261.68)	Seas and waters of the south-east coast of South America
(252.32)	Stony deserts		Rio de la Plata
(252.33)	Sandy deserts	(261.683)	Bahia Blanca
(252.42)	Dunes. Drifting sand	(261.684)	Bahia Grande
(252.47)	Estuarine land	(261.687)	—(269.528)
	—(282.05); (285.3)	(261.7)	East and south-east Atlantic
(252.5)	Steppes. Pampas. Heathland	(261.74)	Seas and waters of the coast of west Africa
(252.51)	Steppes proper	(261.76)	Gulf of Guinea
(252.54)	Heathland	(261.77)	Seas and waters of the west coast of Equatorial Africa
(252.55)	Landes (steppe-like regions in France)	(261.78)	Seas and waters of South-West Africa and the west coast of South Africa
(252.6)	Marshland. Peat bogs. Other freshwater formations	(262)	Mediterranean Sea
(252.8)	Lava-covered areas	(262.1)	Western Mediterranean
(253)	Virgin (primeval) woods and forests. Jungle	(262.11)	Seas and waters from Gibraltar to Corsica
(254)	Arable land, cleared or cultivated	(262.112)	Strait of Gibraltar
(255)	Flooded land. Irrigated land. Drained land. Polders etc.	(262.116)	Ligurian Sea
		(262.13)	Tyrrhenian Sea
(256)	Fenced, enclosed land	(262.138)	Strait of Messina
(257)	Fortified country	(262.16)	Seas and waters of the Algerian and north Tunisian coast
(26)	Oceans, seas and interconnections	(262.2)	Eastern Mediterranean in general
	—(285); 551.46	(262.22)	Ionian Sea
		(262.26)	Seas and waters of east Tunisian and Libyan coasts
Special auxiliary subdivisions		(262.27)	Seas and waters of the southern Asia Minor coast
(26.02)	Open sea. High seas		Adriatic Sea
(26.03)	Abyssal zone. Depths of the sea. Submarine...	(262.3)	Aegean Sea
(26.04)	Gulfs. Bays. Bights. Creeks. Natural harbours. Roadsteads	(262.4)	Black Sea
(26.05)	Lagoons. Haffs. Salt ponds	(262.5)	Sea of Marmara
(26.06)	Ocean and sea interconnections. Sea canals	(262.53)	Dardanelles
	—(282.5); 626.9	(262.536)	Bosporus
(26.07)	Ocean and sea currents	(262.538)	Sea of Azov
Common auxiliaries (continued)		(262.54)	Caspian Sea
(261)	Atlantic Ocean	(262.81)	Aral Sea
(261.1)	North Atlantic Ocean generally	(262.83)	Pacific Ocean
(261.2)	North-east Atlantic	(265)	East and south-east Pacific
	—(268.4)	(265.1)	Gulf of Guayaquil
(261.24)	Baltic Sea. Gulfs of Bothnia, Finland, Riga	(265.13)	Gulf of Panama
(261.247)	Belts and Sund	(265.15)	Panama Canal
(261.248)	Kattegat	(265.159)	Central American and south-west Mexican Pacific waters
(261.249)	Kiel Canal (Baltic/North Sea)	(265.16)	Gulf of California
(261.26)	North Sea	(265.17)	North and north-east Pacific
(261.262)	German Bight. Friesian Island waters	(265.2)	Seas and waters of coast of California
(261.263)	Skagerrak	(265.22)	

(265.23)	West Canadian and south-east Alaskan coastal seas and waters	(268.75)	Hudson Bay. Hudson Strait
(265.24)	Gulf of Alaska	(268.77)	Baffin Bay
(265.5)	West and north-west Pacific	(268.78)	Lincoln Sea
(265.51)	Bering Sea	(268.9)	Arctic Basin
(262.52)	Seas and waters off the south-east coast of Kamchatka	(269)	Southern Ocean (Antarctic Ocean)
(265.53)	Sea of Okhotsk	(269.4)	Atlantic sector of Southern Ocean. Scotia Sea. Lazarev Sea
(265.54)	Sea of Japan	(269.42)	Drake's Passage (Drake's Strait)
(265.55)	East coast and inner seas of the Japanese islands	(269.46)	Weddell Sea
(265.56)	Yellow Sea	(269.5)	Pacific sector of Southern Ocean. Bellingshausen Sea
(265.57)	East China Sea	(269.52)	Inner seas of Chilean archipelago
(265.578)	Formosa Strait (Taiwan Strait)	(269.528)	Strait of Magellan
(265.58)	Philippine Sea	(269.54)	Amundsen Sea
(265.7)	South and south-west Pacific	(269.56)	Ross Sea
(265.72)	South China Sea	(269.7)	Indian Ocean sector of Southern Ocean
(265.723)	Gulf of Thailand (Gulf of Siam)	(269.71)	Great Australian Bight. Bass Strait
(265.724)	Malay Sea	(269.72)	D'Urville Sea
(265.727)	Singapore Strait	(269.73)	Mawson Sea
(265.73)	Seas of the Malayan Archipelago in general	(269.74)	Sodruzhestvo Sea (Friendship Sea)
(265.732)	Sulu Sea	(269.75)	Cosmonauts' Sea
(265.734)	Celebes Sea	(269.77)	Riiser-Larsen Sea
(265.735)	Molucca Sea	(269.9)	Antarctic Ocean (historical)
(265.736)	Ceram Sea		including (269.46), (269.54/.56), (269.72/.77)
(265.738)	Makassar Strait	(28)	Inland waters
(265.74)	Seas along the Sunda Islands	(282)	Flowing waters. Watercourses. Waterways. Rivers
(265.742)	Java Sea		—556.5
(265.743)	Bali Sea. Bali Strait		
(265.744)	Flores Sea		
(265.76)	Coral Sea and adjoining seas of Melanesia. Solomon Sea. Torres Strait		Special auxiliary subdivisions
(265.77)	Seas around Fiji	(282.03)	Source or sources of river etc.
(265.78)	Tasman Sea	(282.04)	Course of river
(265.782)	Seas, gulfs and bays of New South Wales coast	(282.042)	Upper course of river
(265.788)	Cook Strait	(282.043)	Middle course of river
(267)	Indian Ocean	(282.044)	Lower course of river
(267.2)	West and south-west Indian Ocean	(282.05)	River mouths. Outflows. Course and arms of outflow
(267.23)	East Madagascar coastal seas and waters		Common auxiliaries (continued)
(267.24)	South and south-east African seas and waters	(282.2)	River basins and systems. Rivers with their sources, tributaries and outflows
(267.25)	Mozambique Channel	(282.24)	European rivers
(267.26)	Eastern African coastal waters, of Tanzania, Kenya, Somalia	(282.242)	Rivers of the British Isles
(267.3)	North-western Indian Ocean	(282.242.1)	Rivers of Scotland. Moray. Tay. Firth. Solway. Clyde. Lorne
(267.32)	Gulf of Aden	(282.242.2)	Rivers of Ireland. Foyle. Boyne. Liffey. Slaney. Barrow. Blackwater. Lee. Shannon
(267.328)	Strait of Bab el Mandeb	(282.242.3)	Rivers of northern England and north Wales. Tyne. Tees. Yorkshire Ouse. Humber. Trent. Dee. Mersey. Ribble
(267.33)	Red Sea	(282.242.4)	Rivers of southern England and south Wales. Norfolk Ouse. Yare. Stour. Thames. Medway. Arun. Exe. Severn. Avon. Wye. Tawe. Taf
(267.339)	Suez Canal		Rivers of central Europe
(267.35)	Persian Gulf. Strait of Hormuz	(282.243)	Rhine
(267.36)	Gulf of Oman	(282.243.1)	Sources of the Rhine
(267.37)	Arabian Sea	(282.243.11)	Lake Constance (Bodensee)
(267.38)	Laccadive Sea	(282.243.13)	Upper Rhine (Lake Constance to Bingen)
(267.6)	North-eastern Indian Ocean	(282.243.14)	Aare
(267.64)	Bay of Bengal	(282.243.142)	Neckar
(267.65)	Andaman Sea	(282.243.146)	Main
(267.657)	Malacca Strait	(282.243.147)	Middle Rhine (Bingen to Godesberg)
(267.67)	Seas and waters of south-west Sumatra	(282.243.15)	Nahe
(267.7)	East and south-east Indian Ocean	(282.243.151)	Lahn
(267.72)	Timor Sea	(282.243.152)	Ahr
(267.73)	Arafura Sea. Gulf of Carpentaria	(282.243.155)	Sieg
(267.74)	North-west Australian coastal seas and waters	(282.243.156)	Lower Rhine (Godesberg to the estuary)
(267.75)	West Australian coastal seas and waters	(282.243.163)	Ruhr
(268)	Arctic Ocean	(282.243.17)	Rivers of the Rhine estuary
(268.4)	European Arctic Ocean. Greenland Sea. Denmark Strait. Norwegian Sea	(282.243.171)	IJssel
(268.45)	Barents Sea	(282.243.172)	Lek
(268.46)	White Sea	(282.243.173)	Waal
(268.5)	Asian Arctic Ocean	(282.243.21)	Ems
(268.52)	Kara Sea	(282.243.22)	Weser
(268.53)	Laptev Sea	(282.243.3)	Elbe
(268.55)	East Siberian Sea	(282.243.31)	Vltava (Moldau)
(268.56)	Chukchi Sea	(282.243.35)	Saale
(268.7)	American Arctic Ocean	(282.243.36)	Havel
(268.72)	Beaufort Sea	(282.243.41)	Trave
(268.74)	Seas of the Canadian Archipelago. Viscount Melville Sound. Lancaster Sound. McChintock Channel. Gulf of Boothia	(282.243.5)	Oder
		(282.243.55)	Lausitzer (Görlitzer) Neisse (Nysa)

(282.243.56)	Warta	(282.248)	Rivers of northern Europe
(282.243.61)	Vistula (Wisla/Weichsel)	(282.248.1)	Rivers of Norway
(282.243.7)	Danube	(282.248.2)	Rivers of Sweden
(282.243.71)	Danube from the source to Regensburg	(282.248.3)	Rivers of Finland
(282.243.711)	Souces of the Danube	(282.249)	Rivers of the Balkan Peninsula
(282.243.712)	Iller	(282.249.1)	Rivers of the north-west Balkan Peninsula.
(282.243.714)	Lech		Neretva. Drin. Semeni
(282.243.715)	Altmühl	(282.249.2)	Rivers of the north-east Balkan Peninsula.
(282.243.717)	Regen		Vardar (Vardaris). Maritsa (Evros/Meriç)
(282.243.72)	Upper Danube (Regensburg to Passau)	(282.249.3)	Rivers of Greece
(282.243.722)	Isar	(282.25)	Rivers of Asia
(282.243.723)	Inn	(282.252)	Rivers of eastern Asia
(282.243.73)	Upper middle Danube (Passau to Budapest)	(282.252.2)	Huang Ho (Hwang Ho/Yellow River)
(282.243.731)	Traun	(282.252.3)	Ch'ang Chiang (Yangtze Kiang)
(282.243.732)	Enns	(282.253)	Rivers of southern Asia
(282.243.74)	Lower middle Danube (Budapest to the Iron Gate)	(282.253.11)	Mekong
		(282.253.12)	Menam
(282.243.741)	Drava	(282.253.13)	Salween
(282.243.742)	Tisza (Tisa)	(282.253.14)	Irrawaddy
(282.243.743)	Sava	(282.253.21)	Ganges system
(282.243.75)	Lower Danube	(282.253.22)	Brahmaputra system
(282.243.76)	Danube Delta	(282.253.24)	Indus system
(282.244)	Rivers of western Europe	(282.253.27)	Rivers of Ceylon
(282.244.11)	Meuse (Maas)	(282.254)	Rivers of south-west Asia
(282.244.12)	Schelde	(282.254.11)	Menderes (Meander)
(282.244.13)	Somme	(282.254.21)	Orontes (Asi)
(282.244.14)	Seine	(282.254.23)	Jordan
(282.244.21)	Loire	(282.254.31)	Euphrates (Furat)
(282.244.22)	Dordogne	(282.254.32)	Tigris (Dijlah)
(282.244.23)	Garonne	(282.254.5)	Rivers of the Arabian peninsula
(282.244.31)	Rhône	(282.254.6)	Rivers of the Iranian plateau
(282.245)	Rivers of Italy	(282.255)	Rivers of the inland drainage basins of middle and central Asia
(282.245.12)	Adige		Amu Darya (Oxus)
(282.245.13)	Po	(282.255.1)	Syr Darya (Jaxartes)
(282.245.22)	Tevere (Tiber)	(282.255.2)	Emba
(282.245.3)	Rivers of southern Italy	(282.255.32)	Ozero Balkhash and its basin
(282.245.4)	Rivers of Sicily	(282.255.5)	Ob'
(282.245.5)	Rivers of Corsica and Sardinia	(282.256.1)	Irtys
(282.246)	Rivers of the Iberian peninsula	(282.256.16)	Yenisei (Ulug-Chem)
(282.246.11)	Ebro	(282.256.3)	Ozero Baykal (Lake Baikal)
(282.246.21)	Guadalquivir	(282.256.341)	Lena
(282.246.23)	Tagus (Tejo/Tajo)	(282.256.6)	Kolyma
(282.246.24)	Douro (Duro)	(282.256.86)	Rivers flowing into the Bering Sea
(282.247)	Rivers of eastern Europe and the Caucasus	(282.257.1)	Rivers of Kamchatka flowing into the Pacific
(282.247.11)	Pechora	(282.257.2)	Rivers of the Kuriles
(282.247.12)	Mezen'	(282.257.3)	Mainland rivers flowing into the Sea of Okhotsk
(282.247.13)	Severnaya Dvina	(282.257.4)	Amur
(282.247.14)	Onega		Ussuri (Wu-su-li Chiang)
(282.247.18)	Rivers of the Kola Peninsula	(282.257.5)	Rivers of Sakhalin
(282.247.21)	Neva	(282.257.58)	Rivers of Africa
(282.247.211)	Onezhskoye Ozero (Lake Onega)	(282.257.6)	Zambezi
(282.247.212)	Ladozhskoye Ozero (Lake Ladoga)	(282.26)	Limpopo
(282.247.216)	Ozero Il'men'	(282.261.3)	Orange
(282.247.224)	Narva	(282.261.4)	Cunene (Kunene)
(282.247.23)	Zapadnaya Dvina	(282.262.1)	Congo
(282.247.28)	Neman (Memel)	(282.262.2)	Niger
(282.247.281)	Berezina	(282.262.4)	Senegal
(282.247.29)	Pregolya	(282.262.6)	Nile
(282.247.314)	Dnestr (Dniester)	(282.262.7)	Chari. Lake Chad
(282.247.318)	Yuzhnyy Bug	(282.263.1)	Rivers of North America
(282.247.32)	Dnepr (Dnieper)	(282.264.1)	Fraser
(282.247.322)	Pripyat'	(282.27)	Columbia
(282.247.324)	Desna	(282.271.1)	Sacramento
(282.247.34)	Rivers of the Crimea	(282.271.2)	Colorado
(282.247.36)	Don	(282.271.3)	St Lawrence
(282.247.362)	Khoper	(282.271.4)	Ottawa
(282.247.364)	Severskiy Donets	(282.272.1)	Connecticut
(282.247.366)	Manych	(282.272.11)	Hudson
(282.247.38)	Kuban	(282.272.2)	Delaware
(282.247.41)	Volga	(282.272.3)	Susquehanna
(282.247.412)	Oka	(282.272.4)	Potomac
(282.247.412.2)	Moskva	(282.272.5)	Mississippi
(282.247.412.4)	Moksha	(282.272.6)	Illinois
(282.247.413.5)	Rybinsk Reservoir (Rybinskoye Vodokhranilishche)	(282.272.7)	Ohio
		(282.272.71)	Missouri
(282.247.415)	Kama	(282.272.72)	Arkansas
(282.247.42)	Ural	(282.272.73)	Red River
(282.247.441)	Kura	(282.272.74)	Rio Grande del Norte
(282.247.444)	Terek	(282.272.75)	
(282.247.445)	Kuma	(282.272.8)	

(282.273.1)	Yukon	(363.61)
(282.273.2)	Mackenzie	(363.62)
(282.274.1)	Churchill	(364)
(282.274.2)	Nelson-Saskatchewan system	(365)
(282.274.3)	Albany	(366)
(282.28)	Rivers of South America	(367)
(282.281.2)	Orinoco	(368)
(282.281.3)	Amazonas	
(282.281.31)	Rio Negro	(369.1)
(282.281.33)	Madeira	(369.2)
(282.281.34)	Tapajos	(37)
(282.281.35)	Xingu	(38)
(282.281.4)	Tocantins	(391)
(282.281.5)	Sao Francisco	(392)
(282.281.6)	La Plata	
(282.281.61)	Uruguay	(393)
(282.281.62)	Parana	
(282.281.621)	Paraguay	(394)
(282.282)	South American rivers flowing into the Pacific	
(282.29)	Rivers of Oceania	(395)
(282.291)	Rivers of the Malay archipelago	
(282.292)	Rivers of the Sunda Islands	(396)
(282.293)	Rivers of Melanesia	(397)
(282.293.1)	Rivers of New Zealand	
(282.294)	Rivers of Australia	(398)
(282.294.1)	Murray	
(282.294.11)	Darling	
(282.294.12)	Lachlan	(399)
(282.294.13)	Murrumbidgee	
(282.295)	Rivers of New Guinea	(399.7)
(282.296)	Rivers of Polynesia	
(282.3)	Waterfalls. Rapids. Cataracts. Cascades	
(282.5)	Canals. Artificial waterways	(4/9)
	—(26.06); 626.1; 656.628	
(285)	Still and stagnant waters. Lakes. Ponds.	
	Swamps	
(285.2)	Lakes	
	—556.55	
(285.3)	Ponds. Swamps. Marshes. Fens	
	—556.56	
(285.32)	Saltwater swamps. Salt ponds	
(285.33)	Freshwater swamps and ponds	
(289)	Brackish waters	
(3)	PLACES OF ANCIENT WORLD	
	<i>The world as known to the ancients, up to the fall of the western Roman Empire (ca. AD 476). The following divisions correspond to those of the modern world. For the older divisions of countries not known to classical antiquity — (399)</i>	
(309)	Legendary countries. Conjectural countries.	(4)
	Places of uncertain existence, e.g. Atlantis.	(41)
	Fabulous lands	(41-44)
	—(1-08); (217); 572.4	
(315)	Cinarum regio. Ancient China	(410)
(32)	Aegyptus. Ancient Egypt	
(33)	Judaea. The Holy Land. Region of the Israelites. Jerusalem. Nazareth. Bethlehem. Sichem. Jericho	
(34)	Ancient India	
(35)	Medo-Persia	
(351)	Chaldaeae	
(352)	Assyria. Assur. Nineveh	
(353)	Media. Ecbatana	(410.1)
(354)	Babylonia	(410.11/.12)
(355)	Ancient Persia. Persepolis	(410.11)
(356)	Parthia. Hyrcania	(410.111)
(357)	Sassania (Sassanid Persia)	(410.111.1/.3)
(358)	Mesopotamia	(410.111.11)
(359)	Susiana. Susa. Elam	(410.111.12)
(36)	Regions of the so-called barbarians	(410.111.13)
(363)	Regions of the Germanic tribes	(410.111.14)
(363.1)	Regions of the Burgundians, Vandals, Alans, Gepids	(410.111.15)
		(410.111.16)
(363.2)	Regions of the Angles, Saxons, Jutes	(410.111.17)
(363.3)	Regions of the Alemanni, Heruli, Suevi	(410.111.18)
(363.4)	Regions of the Franks	(410.111.21)
(363.5)	Regions of the Langobardi (Lombards)	(410.111.22)
(363.6)	Regions of the Goths	(410.111.23)

Regions of the Ostrogoths (East Goths)
Regions of the Visigoths (West Goths)
Regions of the Celts
Hispania. Iberia
Britannia. Roman Britain
Regions of the Slavs
Regions of the Nordic peoples:
Scandinavians, Norse, Normans, Vikings
Regions of the Huns
Regions of the Avars
Roma. Italia. Ancient Rome
Graecia. Ancient Greece
Graeciae insulae
Asia Minor occidentalis. Phrygia. Troia (Troy). Lydia
Asia Minor orientalis. Cappadocia. Cilicia. Cyprus
Ancient Syria. Phoenicia. Palaestina. The Hittites. Arabia
Asia septentrionalis occidentalis. Scythia. Colchis. Armenia
Asia meridionalis centralis. Hyrcania. Bactria
Ancient Africa. Mauretania. Numidia.
Karthago (Carthage). Libya. Aethiopia
Europa meridionalis orientalis. Dacia.
Vindelicia. Rhaetia. Noricum. Pannonia. Illyria. Dalmatia
Other regions. Ancient geographical divisions other than those of classical antiquity
Regions of ancient American cultures.
Pre-Columbian America

COUNTRIES AND PLACES OF THE MODERN WORLD

The following subdivisions represent the currently valid divisions of the countries of the modern world down to primary administrative level. Direct decimal subdivision is used where available from the full editions; for sections awaiting revision, the names are given to facilitate alphabetic subdivision (→ Table I(h))
Secondary and further administrative units may be denoted by the (-2/-3) special auxiliaries listed under (1), e.g.
(63-25Addis Ababa) Capital of Ethiopia
Some historical concepts are also included, and are described as such

EUROPE

British Isles (Great Britain, Ireland and minor islands)

British Commonwealth and Empire generally
For specific dependencies — individual (4/9) numbers

Great Britain. United Kingdom of Great Britain and Northern Ireland

The subdivisions of (410) represent the current administrative divisions of the United Kingdom: of Greater London from 1 October 1965, of the rest of England and Wales from 1 April 1974, of Scotland from 16 May 1975 and of Northern Ireland from 1 October 1973

England
South East Region
South East Region in general
Greater London
Cities and boroughs north of the Thames
City of London
Tower Hamlets
Newham
Barking and Dagenham (formerly: Barking)
Havering
Redbridge
Waltham Forest
Enfield
Haringey
Hackney
Islington

(410.111.24)	City of Westminster	(410.313)	Mid Glamorgan
(410.111.25)	Camden	(410.314)	Gwent
(410.111.26)	Barnet	(410.315)	Powys
(410.111.27)	Brent	(410.316)	Clwyd
(410.111.28)	Harrow	(410.317)	Gwynedd
(410.111.32)	Hillingdon	(410.318)	Dyfed
(410.111.33)	Ealing	(410.5)	Scotland
(410.111.34)	Hounslow	(410.511)	Lothian Region
(410.111.36)	Hammersmith and Fulham (formerly: Hammersmith)	(410.512)	Central Region
(410.111.38)	Kensington and Chelsea	(410.513)	Fife Region
(410.111.4/.5)	Boroughs south of the Thames	(410.514)	Tayside Region
(410.111.41)	Greenwich	(410.516)	Grampian Region
(410.111.42)	Lewisham	(410.518)	Highland Region
(410.111.43)	Southwark	(410.521)	Orkney Islands Area
(410.111.44)	Lambeth	(410.522)	Shetland Islands Area
(410.111.45)	Wandsworth	(410.523)	Western Isles Islands Area
(410.111.46)	Richmond upon Thames		<i>includes Outer Hebrides, Rockall, Rona, St Kilda</i>
(410.111.47)	Kingston upon Thames	(410.524)	Strathclyde Region
(410.111.48)	Merton	(410.526)	Dumfries and Galloway Region
(410.111.51)	Sutton	(410.528)	Borders Region
(410.111.52)	Croydon	(410.7)	Northern Ireland
(410.111.54)	Bromley	(410.712/.718)	Districts of Northern Ireland
(410.111.56)	Bexley	(410.712.12)	Belfast
(410.112)	Kent	(410.712.14)	Newtownabbey
(410.113)	Essex	(410.712.16)	Carrickfergus
(410.114)	Hertfordshire	(410.712.18)	Larne
(410.115)	Bedfordshire	(410.712.22)	Moyle
(410.116)	Buckinghamshire	(410.712.24)	Ballymoney
(410.117)	Oxfordshire	(410.712.26)	Ballymena
(410.118)	Berkshire	(410.712.28)	Antrim
(410.121)	Hampshire	(410.714.12)	Magherafelt
(410.122)	Isle of Wight	(410.714.14)	Coleraine
(410.124)	West Sussex	(410.714.16)	Limavady
(410.126)	East Sussex	(410.714.18)	Londonderry
(410.128)	Surrey	(410.716.12)	Dungannon
(410.13)	East Anglia	(410.716.14)	Cookstown
(410.132)	Suffolk	(410.716.16)	Omagh
(410.134)	Norfolk	(410.716.18)	Strabane
(410.138)	Cambridgeshire	(410.716.22)	Fermanagh
(410.14)	East Midlands	(410.718.11)	Armagh
(410.141)	Northamptonshire	(410.718.12)	Newry and Mourne
(410.142)	Leicestershire	(410.718.14)	Banbridge
(410.144)	Lincolnshire	(410.718.16)	Down
(410.146)	Nottinghamshire	(410.718.18)	Ards
(410.148)	Derbyshire	(410.718.22)	North Down
(410.15)	Yorkshire and Humberside	(410.718.24)	Castlereagh
(410.152)	Humberside	(410.718.26)	Lisburn
(410.154)	North Yorkshire	(410.718.28)	Craigavon
(410.156)	West Yorkshire Metropolitan County	(411/429)	Traditional divisions of United Kingdom.
(410.158)	South Yorkshire Metropolitan County		Republic of Ireland
(410.16)	Northern Region	(411)	Scotland: traditional divisions
(410.161)	Cleveland	(411.1)	County of Zetland. Shetland Islands
(410.162)	Durham, county	(411.2)	County of Orkney. Orkney Islands
(410.164)	Tyne and Wear Metropolitan County	(411.3)	Caithness
(410.166)	Northumberland	(411.4)	Sutherland
(410.168)	Cumbria	(411.5/.6)	Ross and Cromarty (single county, 1889-1975)
(410.17)	North West Region		<i>Cromarty (411.5) and Ross (411.6) were separate counties to 1889</i>
(410.172)	Lancashire		Hebrides (Outer and Inner Hebrides)
(410.174)	Merseyside Metropolitan County	(411.7)	<i>From 1975, divided between Highland — (410.518) and Western Isles — (410.523)</i>
(410.176)	Greater Manchester Metropolitan County		Inverness-shire
(410.178)	Cheshire		<i>includes Rockall, St Kilda</i>
(410.18)	West Midlands Region		Nairnshire
(410.181)	Staffordshire	(412.1)	Moray (Elginshire)
(410.182)	Shropshire (formerly: Salop)	(412.2)	Banffshire
(410.184)	Hereford and Worcester	(412.3)	Aberdeenshire
(410.186)	Warwickshire	(412.4)	Kincardineshire
(410.188)	West Midlands Metropolitan County	(412.5)	Angus (Forfarshire)
(410.19)	South West Region	(412.6)	Perthshire
(410.191)	Gloucestershire	(413.1)	Fife
(410.192)	Avon	(413.2)	Kinross-shire
(410.193)	Wiltshire	(413.3)	Clackmannanshire
(410.194)	Somerset	(413.4)	Stirlingshire
(410.195)	Dorset	(413.5)	Dunbartonshire
(410.196)	Devon	(413.6)	Argyllshire
(410.197)	Cornwall	(413.7)	Bute, with Arran
(410.198)	Isles of Scilly	(413.8)	Renfrewshire
(410.3)	Wales	(413.9)	
(410.311)	South Glamorgan	(414.1)	
(410.312)	West Glamorgan		

(414.2)	Ayrshire	(422.9)	Berkshire
(414.3)	Lanarkshire	(423.1)	Wiltshire
(414.42)	West Lothian (Linlithgowshire)	(423.3)	Dorset
(414.45)	Midlothian	(423.4)	Channel Islands
(414.52)	East Lothian (Haddingtonshire)	(423.41)	Jersey. Islets near Jersey: Ecréhous, les
(414.55)	Berwickshire		Minquiers etc.
	<i>For Berwick-upon-Tweed,</i>	(423.43)	Guernsey (Guernesey)
	<i>Northumberland, — (410.166), (428.2)</i>	(423.432)	Lihou
(414.62)	Peeblesshire	(423.44)	Herm
(414.65)	Selkirkshire	(423.442)	Jethou
(414.7)	Roxburghshire	(423.45)	Sark (Sercq)
(414.8)	Dumfriesshire	(423.452)	Bréchou
(414.92)	Kirkcudbrightshire	(423.47)	Alderney (Aurigny). Islets near Alderney:
(414.95)	Wigtownshire		Burhou, les Casquets
(415)	Ireland (geographical whole)	(423.5)	Devon
(416)	Northern Ireland: traditional divisions.	(423.7)	Cornwall. Isles of Scilly
	Ulster	(423.8)	Somerset
(416.1)	Antrim	(424.1)	Gloucestershire
(416.2)	Londonderry (Derry)	(424.3)	Monmouthshire
(416.4)	Tyrone	(424.4)	Herefordshire
(416.5)	Down	(424.5)	Shropshire
(416.6)	Armagh	(424.6)	Staffordshire
(416.8)	Fermanagh	(424.7)	Worcestershire
(416.9)	Parts of Ulster in the Republic of Ireland	(424.8)	Warwickshire
(416.91)	Cavan	(425.1)	Derbyshire
(416.92)	Donegal	(425.2)	Nottinghamshire
(416.93)	Monaghan	(425.3)	Lincolnshire
(417)	Republic of Ireland. Eire	(425.42)	Leicestershire
	<i>—(416.9)</i>	(425.45)	Rutland
(417.0)	Connacht (Connaught)	(425.5)	Northamptonshire
(417.1)	Leitrim	(425.62)	Huntingdon and Peterborough (single county,
(417.2)	Sligo		1965-1974). Huntingdonshire (to 1965). Soke
(417.3)	Mayo		of Peterborough (county status, 1888-1965)
(417.4)	Galway		<i>Peterborough merged with</i>
(417.5)	Roscommon		<i>Huntingdonshire 1965, then both in</i>
(418)	Leinster		<i>Cambridgeshire 1974 — (410.138)</i>
(418.12)	Longford	(425.65)	Bedfordshire
(418.15)	Westmeath	(425.72)	Oxfordshire
(418.22)	Meath	(425.75)	Buckinghamshire
(418.25)	Louth	(425.8)	Hertfordshire
(418.3)	Dublin county	(425.9)	Cambridgeshire and Isle of Ely
(418.4)	Wicklow	(426.1)	Norfolk
(418.5)	Kildare	(426.4)	Suffolk
(418.6)	Offaly (formerly: King's County)	(426.7)	Essex
(418.7)	Laois (Leix. Formerly: Queen's County)	(427.1)	Cheshire
(418.82)	Carlow	(427.2)	Lancashire
(418.85)	Wexford	(427.4)	Yorkshire
(418.9)	Kilkenny		(427.4-11) East Riding
(419)	Munster		(427.4-15) West Riding
(419.1)	Waterford		(427.4-17) North Riding
(419.2)	Tipperary	(428.1)	Durham, county
(419.3)	Clare	(428.2)	Northumberland
(419.4)	Limerick	(428.5)	Cumberland
(419.5)	Cork	(428.8)	Westmorland
(419.6)	Kerry	(428.9)	Isle of Man
(420)	England: traditional divisions	(429)	Wales: traditional divisions
(421)	County of London (1899 to 1965)	(429.1)	Anglesey
(421.1)	London north of the Thames	(429.22)	Caernarvonshire
(421.2)	Central London. City of London. Boroughs of	(429.25)	Merionethshire
	Finsbury, Holborn	(429.32)	Denbighshire
(421.3)	West London. City of Westminster. Boroughs of	(429.35)	Flintshire
	Chelsea, Fulham, Hammersmith,	(429.4)	Montgomeryshire
	Kensington, Paddington	(429.5)	Cardiganshire
(421.4)	North London boroughs. Hackney.	(429.62)	Radnorshire
	Hampstead. Islington. St Marylebone. St	(429.65)	Brecknockshire
	Pancras. Stoke Newington	(429.7)	Glamorgan
(421.5)	East London boroughs. Bethnal Green.	(429.8)	Carmarthenshire
	Poplar. Shoreditch. Stepney	(429.9)	Pembrokeshire
(421.6)	London south of the Thames. Battersea.	(430)	Germany
	Bermondsey. Camberwell. Deptford.		
	Greenwich. Lambeth. Lewisham. Southwark.		
	Wandsworth. Woolwich		
(421.9)	Middlesex		
(422.1)	Surrey		
(422.3)	Kent		
(422.5)	Sussex		
	(422.5-11) East Sussex		
	(422.5-15) West Sussex		
(422.7)	Hampshire		
(422.8)	Isle of Wight		

(430) (cont'd)	<i>The German text of the International Medium Edition contains administrative subdivisions to tertiary level for the Federal Republic of Germany (Länder; Regierungsbezirke; Kreise) and to secondary level for the German Democratic Republic (Bezirke; Kreise). This English text includes only the primary divisions, except for the capital cities in each case. Further particulars may be denoted alphabetically (→ Table I(h)). Specialist users requiring greater detail are referred to the German edition</i>	(435.1) (435.15) (435.2) (435.25) (435.3) (435.6) (435.8) (435.9) (435.91) (435.92) (435.93) (436)	Schleswig-Holstein Hamburg Oldenburg Bremen Hannover (Hanover) Westfalen (Westphalia) Hessen-Nassau Luxembourg. Grand Duchy of Luxembourg Luxembourg (city) Diekirch Grevenmacher Austria. Republic of Austria (Republik Oesterreich) <i>Bundesländer (primary administrative divisions): (436B/W)</i> Burgenland Steiermark (Styria) (capital: Graz) Kärnten (Carinthia) Oberösterreich (Upper Austria) (capital: Linz) Niederösterreich (Lower Austria) Salzburg Tirol (Tyrol) Vorarlberg Wien (Vienna) Czechoslovakia. Czechoslovak Socialist Republic <i>Kraje (primary administrative divisions): five-figure subdivisions, (437.11) etc.</i> Czech Socialist Republic. Bohemia and Moravia Cechy (Bohemia) Praha (Prague) Kraj Stredocesky (central Bohemia) Kraj Vychodocesky (east Bohemia) Kraj Severocesky (north Bohemia) Kraj Zapadocesky (west Bohemia) Kraj Jihocesky (south Bohemia) Morava (Moravia) Kraj Jihomoravsky (south Moravia) Kraj Severomoravsky (north Moravia) Slezsko (Silesia) Galicia (Galizien) to 1919 <i>Galicia 1919-1945 part of southern Poland, use (438-13); now part in Poland, part in Ukrainian SSR, → (477), especially (477.83/.84)</i> Bukowina to 1919 <i>Bukovina now part in Rumania, part in Ukraine, → (477.85), (498.6)</i> Slovak Socialist Republic. Slovensko (Slovakia) Kraj Zapadoslovensky (west Slovakia) Bratislava (Pressburg) Kraj Stredoslovensky (central Slovakia) Kraj Vychodoslovensky (east Slovakia) Zakarpatska Ukrajina (Transcarpathian Ukraine/ Carpatho-Russia/Ruthenia), 1918-1938 <i>Part of Hungary to 1918 and 1939-45, → (439.23); part of Ukrainian SSR since 1945, → (477.87)</i> Poland. Polish People's Republic →(475) <i>Wojewodztwa (primary administrative divisions): (438.11/.31)</i> Wojewodztwo warszawskie. Warszawa (Warsaw) Wojewodztwo lodzkie. Lodz Wojewodztwo kieleckie. Kielce Wojewodztwo lubelskie. Lublin Wojewodztwo bialostockie. Bialystok Wojewodztwo gdanskie. Gdansk (Danzig) →(431.25) Wojewodztwo koszalinskie. Koszalin (Köslin) Wojewodztwo olszynskie. Olsztyn (Allenstein) Wojewodztwo opolskie. Opole (Oppeln) Wojewodztwo bydgoskie. Bydgoszcz (Bromberg) Wojewodztwo poznanskie. Poznan (Posen) →(431.3)
(430.1)	Federal Republic of Germany (Bundesrepublik Deutschland)		
(430.1-37.442)	Bonn. Stadtkreis Bonn	(436B)	
(430.1-43)	Länder (primary administrative divisions) of the Federal Republic of Germany	(436G) (436K) (436L) (436N) (436S) (436T) (436V) (436W) (437)	
(430.1-43.1)	Land Berlin (West Berlin)		
(430.1-43.2)	Hamburg		
(430.1-43.2.1)	Bremen		
(430.1-43.23)	Schleswig-Holstein		
(430.1-43.27)	Niedersachsen (Lower Saxony)		
(430.1-43.36)	Nordrhein-Westfalen (North Rhine, Westphalia)		
(430.1-43.45)	Hessen (Hesse)		
(430.1-43.47)	Saarland		
(430.1-43.48)	Rheinland-Pfalz		
(430.1-43.5)	Baden-Württemberg	(437.1/.2)	
(430.1-43.6)	Bayern (Bavaria)		
(430.2)	German Democratic Republic (Deutsche Demokratische Republik)	(437.1) (437.10) (437.11) (437.13) (437.15) (437.17) (437.19) (437.2) (437.22) (437.26) (437.3) (437.4)	
(430.2-25)	Berlin-Ost (East Berlin), capital of the German Democratic Republic		
(430.2-35)	Bezirke (primary administrative divisions) of the German Democratic Republic		
(430.2-35.156)	Potsdam		
(430.2-35.16)	Frankfurt an der Oder		
(430.2-35.17)	Magdeburg		
(430.2-35.18)	Halle (Saale)		
(430.2-35.19)	Cottbus		
(430.2-35.246)	Schwerin		
(430.2-35.25)	Rostock		
(430.2-35.258)	Neubrandenburg		
(430.2-35.7)	Leipzig		
(430.2-35.73)	Dresden		
(430.2-35.75)	Erfurt	(437.5)	
(430.2-35.756)	Suhl		
(430.2-35.764)	Gera		
(430.2-35.77)	Karl-Marx-Stadt (formerly Chemnitz)	(437.6)	
(431/435.8)	Individual states of Germany to 1934 <i>(only for classifying historical information)</i>	(437.61) (437.612) (437.64) (437.67) (437.7)	
(431)	Preussen (Prussia)		
(431.1)	Ostpreussen (East Prussia) <i>For Königsberg (now = Kaliningrad) → (470.26)</i>		
(431.2)	Westpreussen (West Prussia)		
(431.25)	Freie Stadt Danzig (Free City of Danzig) <i>Modern Danzig = Gdansk, → (438.16)</i>		
(431.3)	Posen (from 1722 partition of Poland to 1919) <i>Modern Posen = Poznan, → (438.22)</i>	(438)	
(431.35)	Grenzmark Posen-Westpreussen		
(431.4)	Schlesien (Silesia) <i>Modern Silesia (Slask) = Wojewodztwo katowickie, → (438.23), cf. (437.3)</i>	(438.11)	
(431.5)	Brandenburg. City of Berlin (historical)		
(431.6)	Pommern (Pomerania)	(438.12)	
(431.7)	Mecklenburg	(438.13)	
(431.8)	Sachsen (Provinz) (Saxony)	(438.14)	
(432.1)	Sachsen (Land) (Saxony)	(438.15)	
(432.2)	Thüringen (Thuringia)	(438.16)	
(433)	Bayern (Bavaria)		
(434.1)	Hessen (Hesse)	(438.17)	
(434.2)	Rheinprovinz (Rhine Province)	(438.18)	
(434.4)	Elsass-Lothringen (from 1870 to 1919) <i>Modern Elsass-Lothringen = Alsace and Lorraine, → (443.82/.83)</i>	(438.19) (438.21)	
(434.6)	Baden	(438.22)	
(434.7)	Württemberg		

(438.23)	Wojewodztwo katowickie, formerly Slask (Silesia), Katowice —(431.4)	(439.23) (cont'd)	<i>Modern Ruthenia = Zakarpatskaya Oblast' of Ukrainian SSR, — (477.87), cf. (437.7) and note</i>
(438.24)	Wojewodztwo rzeszowskie. Rzeszow	(439.24)	Horvat-Szlavonorszag (Croatia, Slavonia)
(438.25)	Wojewodztwo szczecinskie. Szczecin (Stettin)		<i>Modern Croatia and Slavonia are in</i>
(438.26)	Wojewodztwo wroclawskie. Wroclaw (Breslau)		<i>Croatian Republic, Yugoslavia, — (497.13)</i>
(438.27)	Wojewodztwo zielonogorskie. Zielona Gora (Grünberg)	(439.25)	Fiume
(438.31)	Wojewodztwo krakowskie. Krakow (Cracow)		<i>Modern Fiume = Rijeka in Croatian Republic, Yugoslavia, — (497.13)</i>
(438.32/.44)	Historical divisions of Poland <i>Now parts of Pribaltika and Ukrainian SSR, — (474), (477); cf (437.4), (475)</i>	(439.26)	Nyugat-Magyarorszag (Burgenland)
(438.32)	Lwow (Lemberg) <i>For L'vov — (477.83)</i>	(439.5)	<i>Modern Burgenland is a state of Austria, — (436B)</i>
(438.33)	Stanislawow <i>Stanislavov now Ivano-Frankovsk, — (477.86)</i>	(439.55)	Former Austro-Hungarian provinces, to 1919
(438.34)	Tarnopol <i>For Ternopol' — (477.84)</i>	(439.56)	Bosznia
(438.41)	Wołyn <i>For Volyn — (477.82)</i>		<i>Modern Bosnia is part of Republic of Bosnia and Herzegovina, Yugoslavia, — (497.15)</i>
(438.42)	Polesie <i>Polesye (= Pripyat' Marshes) now in Byelorussia and Ukraine, — (476/477), cf. (282.247.322)</i>	(44)	Hercegovina
(438.43)	Nowogrodek		<i>Modern Herzegovina is part of Republic of Bosnia and Herzegovina, Yugoslavia, — (497.15)</i>
(438.44)	Wilno <i>Vilna (capital Vilnius) now in Lithuania, — (474.5)</i>		France. French Republic
(439)	Hungary. Hungarian People's Republic <i>Megyek (primary administrative divisions): six-figure subdivisions, (439.111) etc., and alphabetically where not otherwise provided for</i>	(441.1/.5)	—(694.1); (694.4); (698.1); (718.9); (729.74); (729.81); (932); (934); (962.1); (963); (99)
(439MIS)	Miskolc megye	(441.1)	<i>Départements (primary administrative divisions): five- and six-figure subdivisions, (441.1) etc., grouped into conventional regions, (441.1/.5) etc.</i>
(439PEC)	Pecs megye	(441.2)	Bretagne (Brittany)
(439SZE)	Szeged megye	(441.3)	Finistère
(439.11)	Transdanubia. Dunantul (left bank of the Danube) area	(441.4)	Côtes du Nord
(439.111)	Vas megye	(441.5)	Morbihan
(439.114)	Győr-Sopron megye	(441.6/.7)	Loire Atlantique
(439.115)	Komárom megye	(441.6)	Ille et Vilaine
(439.117)	Veszprem megye	(441.7)	Maine
(439.118)	Fejér megye	(441.8)	Mayenne
(439.121)	Zala megye	(442.1/.5)	Sarthe
(439.123)	Somogy megye	(442.1)	Maine et Loire
(439.125)	Tolna megye	(442.2)	Normandie (Normandy)
(439.127)	Baranya megye	(442.3)	Manche
(439.13)	North Hungary	(442.4)	Calvados
(439.131)	Nograd megye	(442.5)	Orne
(439.133)	Heves megye	(442.6)	Eure
(439.134)	Borsod-Abauj-Zemplen megye	(442.7)	Seine Maritime
(439.136)	Abauj-Torna varmegye (historical)	(442.8)	Somme
(439.138)	Zemplen varmegye (historical)	(443.4/.6)	Pas de Calais
(439.14)	Alfold (Great Basin) area	(443.4)	Nord
(439.15)	Duna-Tisza area (Danube-Theiss basin)	(443.5)	Ile de France
(439.151)	Budapest	(443.6)	Aisne
(439.153)	Pest megye	(443.611)	Oise
(439.155)	Bacs-Kiskun megye	(443.62)	Région Parisienne
(439.16)	Tisza (left bank of the Theiss) area	(443.63)	Ville de Paris
(439.161)	Szabolcs-Szatmar megye.	(443.64)	Yvelines
(439.163)	Szatmar-Ugocsa-Bereg-Ung (historical)	(443.65)	Seine et Marne
(439.165)	Szabolcs varmegye (historical)	(443.66)	Val d'Oise
(439.169)	Hajdu-Bihar megye	(443.67)	Hauts-de-Seine
(439.173)	Szolnok megye	(443.68)	Seine-St-Denis
(439.175)	Bihar varmegye (historical)	(443.7)	Val-de-Marne
(439.18)	Békes megye	(443.71)	Essonne
(439.181)	Tisza-Maros (Theiss-Maros) basin	(443.72)	Champagne
(439.183)	Csongrad megye	(443.73)	Ardenes
(439.2)	Csanad-Arad-Torontal varmegye (historical)	(443.74)	Marne
(439.21)	Former provinces of Hungary, to 1919	(443.82)	Aube
(439.21)	Erdély (Transylvania) <i>Modern Transylvania is part of Rumania, — (498.4)</i>	(443.821)	Haute Marne
(439.22)	Szlovakia <i>Modern Slovakia = Slovak Socialist Republic, — (437.6)</i>	(443.822)	Lorraine
(439.23)	Karpatalja (Ruthenia)	(443.823)	—(434.4)
		(443.824)	Meuse
		(443.83)	Meurthe et Moselle
		(443.831)	Moselle
		(444.1/.4)	Vosges
		(444.1)	Alsace
		(444.2)	—(434.4)
		(444.3)	Bas Rhin
		(444.4)	Haut Rhin
			Bourgogne (Burgundy)
			Yonne
			Côte d'Or
			Saône et Loire
			Ain

(444.5/.7)	Franche Comté	(450.231)	Provincia di Aosta
(444.5)	Haute Saône	(450.25)	Regione della Lombardia
(444.6)	Doubs	(450.251)	Provincia di Milano (Milan)
(444.7)	Jura	(450.252)	Provincia di Varese
(445.1/.3)	Orléanais	(450.253)	Provincia di Como
(445.1)	Eure et Loir	(450.254)	Provincia di Sondrio
(445.2)	Loiret	(450.255)	Provincia di Bergamo
(445.3)	Loir et Cher	(450.256)	Provincia di Brescia
(445.4)	Indre et Loire	(450.257)	Provincia di Pavia
(445.51)	Indre	(450.258)	Provincia di Cremona
(445.52)	Cher	(450.259)	Provincia di Mantova (Mantua)
(445.6)	Nièvre	(450.32)	Regione del Trentino Alto Adige
(445.7)	Allier	(450.321)	Provincia di Trento (Trent)
(445.9)	Auvergne	(450.323)	Provincia di Bolzano
(445.91)	Puy de Dôme	(450.34)	Regione del Veneto
(445.92)	Cantal	(450.341)	Provincia di Venezia (Venice)
(446.1/.3)	Poitou	(450.342)	Provincia di Verona
(446.10)	Vendée	(450.343)	Provincia di Vicenza
(446.2)	Deux-Sèvres	(450.344)	Provincia di Belluno
(446.3)	Vienne	(450.346)	Provincia di Treviso
(446.4)	Charente Maritime	(450.347)	Provincia di Padova (Padua)
(446.5)	Charente	(450.348)	Provincia di Rovigo
(446.6/.7)	Limousin	(450.36)	Regione del Friuli-Venezia Giulia
(446.6)	Haute Vienne	(450.361)	Provincia di Trieste
(446.7)	Corrèze	(450.363)	Provincia di Pordenone
(446.8)	Creuse	(450.365)	Provincia di Udine
(447.1/.6)	Guyenne	(450.367)	Provincia di Gorizia
(447.1)	Gironde	(450.42)	Regione della Liguria
(447.2)	Dordogne	(450.421)	Provincia di Genova (Genoa)
(447.3)	Lot	(450.423)	Provincia di Imperia
(447.4)	Aveyron	(450.425)	Provincia di Savona
(447.5)	Tarn et Garonne	(450.427)	Provincia di La Spezia
(447.6)	Lot et Garonne	(450.45)	Regione di Emilia e Romagna
(447.7/.8)	Gascogne (Gascony)	(450.451)	Provincia di Bologna
(447.71)	Gers	(450.452)	Provincia di Piacenza
(447.72)	Landes	(450.453)	Provincia di Parma
(447.8)	Hautes Pyrénées	(450.454)	Provincia di Reggio nell' Emilia
(447.9)	Pyrénées Atlantiques	(450.455)	Provincia di Modena
(448.1/.7)	Languedoc	(450.456)	Provincia di Ferrara
(448.11)	Haute Loire	(450.457)	Provincia di Ravenna
(448.12)	Lozère	(450.458)	Provincia di Forlì
(448.2)	Ardèche	(450.5/.6)	Central Italy
(448.3)	Gard	(450.52)	Regione della Toscana
(448.4)	Hérault	(450.521)	Provincia di Firenze (Florence)
(448.5)	Tarn	(450.522)	Provincia di Massa Carrara
(448.6)	Haute Garonne	(450.523)	Provincia di Lucca
(448.7)	Aude	(450.524)	Provincia di Pistoia
(448.8)	Ariège	(450.525)	Provincia di Livorno (Leghorn)
(448.9)	Pyrénées Orientales	(450.526)	Provincia di Pisa
(449.1/.3)	Provence	(450.527)	Provincia di Arezzo
(449.1)	Bouches du Rhône. La Camargue	(450.528)	Provincia di Siena
(449.2)	Vaucluse	(450.529)	Provincia di Grosseto
(449.3)	Var	(450.55)	Regione dell' Umbria
(449.4)	Alpes Maritimes	(450.551)	Provincia di Perugia
(449.45)	Corse (Corsica)	(450.554)	Provincia di Terni
	(449.45HAU) Haute-Corse	(450.57)	Regione delle Marche (Marches)
	(449.45SUD) Corse-du-Sud	(450.571)	Provincia di Ancona
	—(459.9)	(450.573)	Provincia di Macerata
(449.49)	Monaco. Principality of Monaco	(450.575)	Provincia di Pesaro e Urbino
(449.5)	Alpes-de-Haute-Provence (Basses-Alpes)	(450.577)	Provincia di Ascoli Piceno
(449.72)	Hautes-Alpes	(450.62)	Regione del Lazio (Latium)
(449.8)	Drôme	(450.621)	Provincia di Roma (Rome)
(449.91)	Isère	(450.624)	Provincia di Viterbo
(449.93)	Savoie	(450.625)	Provincia di Rieti
(449.94)	Haute Savoie	(450.627)	Provincia di Latina
(449.97)	Rhône	(450.628)	Provincia di Frosinone
(449.98)	Loire	(450.65)	Regione degli Abruzzi
(450)	Italy. Italian Republic	(450.651)	Provincia di L'Aquila
	<i>Province (primary administrative divisions): six-figure subdivisions, (450.211) etc.</i>	(450.653)	Provincia di Teramo
		(450.655)	Provincia di Pescara
		(450.657)	Provincia di Chieti
(450.2/.4)	Northern Italy	(450.67)	Regione del Molise
(450.21)	Regione del Piemonte (Piedmont)	(450.671)	Provincia di Campobasso
(450.211)	Provincia di Torino (Turin)	(450.674)	Provincia di Isernia
(450.213)	Provincia di Vercelli	(450.7)	Southern Italy
(450.214)	Provincia di Novara	(450.72)	Regione della Campania
(450.215)	Provincia di Cuneo	(450.721)	Provincia di Napoli (Naples)
(450.217)	Provincia di Asti	(450.723)	Provincia di Caserta
(450.218)	Provincia di Alessandria	(450.725)	Provincia di Benevento
(450.23)	Regione della Valle D'Aosta	(450.727)	Provincia di Avellino

(450.728)	Provincia di Salerno	(467.11)	Barcelona
(450.75)	Regione della Puglia (Apulia)	(467.12)	Lerida
(450.751)	Provincia di Bari	(467.13)	Gerona
(450.753)	Provincia di Foggia	(467.14)	Tarragona
(450.754)	Provincia di Taranto	(467.2)	Andorra. Principat d'Andorra
(450.756)	Provincia di Brindisi	(467.3)	Valencia (Region)
(450.758)	Provincia di Lecce	(467.31)	Valencia (provincia)
(450.77)	Regione della Basilicata	(467.32)	Castellon
(450.771)	Provincia di Potenza	(467.33)	Alicante
(450.774)	Provincia di Matera	(467.4)	Murcia (Region)
(450.78)	Regione della Calabria	(467.41)	Murcia (provincia)
(450.781)	Provincia di Reggio Calabria	(467.42)	Albacete
(450.784)	Provincia di Cosenza	(467.5)	Islas Baleares (Balearic Islands). Menorca
(450.786)	Provincia di Catanzaro		(Minorca). Ibiza. Formentera etc. Baleares
(450.8)	Italian islands		(provincia)
(450.82)	Regione della Sicilia (Sicily)	(467.51)	Mallorca (Majorca). Palma de Mallorca
(450.821)	Provincia di Palermo	(468.1)	Andalucia (Andalusia) (historical)
(450.822)	Provincia di Trapani	(468.11)	Sevilla (Seville)
(450.823)	Provincia di Messina	(468.12)	Huelva
(450.824)	Provincia di Agrigento	(468.13)	Cordoba
(450.825)	Provincia di Caltanissetta	(468.14)	Jaen
(450.826)	Provincia di Enna	(468.15)	Granada
(450.827)	Provincia di Catania	(468.16)	Almeria
(450.828)	Provincia di Ragusa	(468.17)	Malaga
(450.829)	Provincia di Siracusa (Syracuse)	(468.18)	Cadiz
(450.88)	Regione della Sardegna (Sardinia)	(468.2)	Gibraltar (UK)
(450.881)	Provincia di Cagliari	(468.5)	Islas Canarias (Canary Islands), as part of
(450.884)	Provincia di Sassari		Spain
(450.886)	Provincia di Nuoro		—(649)
(454.4)	San Marino. Republic of San Marino	(469)	Portugal. Portuguese Republic
(456.31)	Stato della Citta del Vaticano (Vatican City State)	(469.11)	Provincia do Minho
		(469.12)	Provincia do Douro Litoral
(458.2)	Malta	(469.2)	Provincia de Tras-os-Montes e Alto Douro
(459.9)	Corsica as part of Italy, to 1768	(469.31)	Provincia da Beira Alta
	—(449.45)	(469.32)	Provincia da Beira Litoral
(460)	Spain. Spanish State	(469.33)	Provincia da Beira Baixa
	—(649)	(469.41)	Provincia da Estremadura
(461)	Galicia. Asturias	(469.411.16)	Lisboa (Lisbon)
(461.1)	Galicia	(469.42)	Provincia da Ribatejo
(461.11)	La Coruna (Corunna)	(469.51)	Provincia do Alto Alentejo
(461.13)	Lugo	(469.52)	Provincia do Baixo Alentejo
(461.14)	Orense	(469.6)	Provincia do Algarve
(461.15)	Pontevedra	(469.8)	Arquipélago da Madeira
(461.2)	Asturias (Region). Oviedo (provincia)		—(649.8)
(462)	Léon. Extremadura	(469.9)	Arquipélago dos Açores (Azores)
(462.1)	Léon (Region)		—(649.9)
(462.11)	Léon (provincia)	(47+57)	Union of Soviet Socialist Republics (USSR)
(462.12)	Zamora	(47)	European USSR
(462.13)	Salamanca		<i>Abbreviations:</i>
(462.2)	Extremadura		ASSR Avtonomnaya Sovetskaya
(462.21)	Caceres		Sotsialisticheskaya Respublika
(462.22)	Badajoz		(Autonomous Soviet Socialist Republic)
(463)	Castilla la Vieja (Old Castile)		SSR Sovetskaya Sotsialisticheskaya
(463.01)	The two Castiles (historical)		Respublika (Soviet Socialist Republic)
(463.1)	Valladolid	(470)	Russian Soviet Federal Socialist Republic
(463.2)	Palencia		(RSFSR). Russia
(463.3)	Santander	(470.1/.6)	European RSFSR. Russia in Europe
(463.4)	Burgos	(470.1/.25)	North European RSFSR
(463.5)	Logrono	(470.1)	North-east European RSFSR
(463.6)	Segovia	(470.11)	Arkhangel'skaya Oblast'. Arkhangel'sk
(463.7)	Avila		(Arhangel)
(463.8)	Soria	(470.12)	Vologodskaya Oblast'. Vologda
(464)	Castilla la Nueva (New Castile)	(470.13)	Komi ASSR (capital Syktykvar)
(464.1)	Madrid	(470.21/.25)	North-west European RSFSR
(464.2)	Toledo	(470.21)	Murmanskaya Oblast'. Murmansk
(464.3)	Ciudad Real	(470.22)	Karel'skaya (Karelian) ASSR (capital
(464.4)	Cuenca		Petrozavodsk)
(464.5)	Guadalajara	(470.23)	Leningradskaya Oblast'. Leningrad
(465)	Navarra (Navarre). Aragon	(470.24)	Novgorodskaya Oblast'. Novgorod
(465.1)	Navarra (Region). Navarra (provincia)	(470.25)	Pskovskaya Oblast'. Pskov
(465.2)	Aragon	(470.26)	Kaliningradskaya Oblast'. Kaliningrad
(465.21)	Zaragoza (Saragossa)		—(431.1)
(465.22)	Huesca	(470.3)	Central region of RSFSR
(465.23)	Teruel	(470.31)	Central RSFSR except Black Earth region
(466)	Provincias Vascongadas (Basque Provinces)	(470.311)	Moskovskaya Oblast'. Moskva (Moscow)
(466.1)	Vizcaya (Biscay)	(470.311.2)	Suburbs (Lesopark) of Moscow
(466.2)	Guipuzcoa	(470.312)	Tul'skaya Oblast'. Tula
(466.3)	Alava	(470.313)	Ryazanskaya Oblast'. Ryazan
(467)	Eastern Spain	(470.314)	Vladimirskaia Oblast'. Vladimir
(467.1)	Cataluna (Catalonia)	(470.315)	Ivanovskaya Oblast'. Ivanovo

(470.316)	Yaroslavskaya Oblast'. Yaroslavl'	(475.91)	Suwalki
(470.317)	Kostromskaya Oblast'. Kostroma	(475.92)	Siedlce
(470.318)	Kaluzhskaya Oblast'. Kaluga	(476)	Belorusskaya SSR. Belorussiya
(470.32)	Central Black Earth (chernozem) region		(Byelorussia/White Russia)
(470.321)	Orlovskaya Oblast'. Orel	(476.1)	Minskaya Oblast'. Minsk
(470.322)	Lipetskaya Oblast'. Lipetsk	(476.2)	Gomel'skaya Oblast'. Gomel'
(470.323)	Kurskaya Oblast'. Kursk	(476.4)	Mogilevskaya Oblast'. Mogilev
(470.324)	Voronezhskaya Oblast'. Voronezh	(476.5)	Vitebskaya Oblast'. Vitebsk
(470.325)	Belgorodskaya Oblast'. Belgorod	(476.6)	Grodenskaya Oblast'. Grodno
(470.326)	Tambovskaya Oblast'. Tambov	(476.7)	Brestskaya Oblast'. Brest
(470.33)	West Central RSFSR	(477)	Ukrainskaya SSR. Ukraina (Ukraine)
(470.331)	Kalininskaya Oblast'. Kalinin	(477.4)	Pravoberezhnaya Ukraina (Right-bank Ukraine)
(470.332)	Smolenskaya Oblast'. Smolensk		Kiyevskaya Oblast'. Kiev
(470.333)	Bryanskaya Oblast'. Bryansk	(477.41)	Zhitomirskaya Oblast'. Zhitomir
(470.34)	Volga-Vyatka region	(477.42)	Khmel'nitskaya Oblast'. Khmel'nitskiy
(470.341)	Gor'kovskaya Oblast'. Gor'ki	(477.43)	Vinnitskaya Oblast'. Vinnitsa
(470.342)	Kirovskaya Oblast'. Kirov	(477.44)	Kirovogradskaya Oblast'. Kirovograd
(470.343)	Mariyskaya (Mari) ASSR (capital Yoshkar-Ola)	(477.45)	Cherkasskaya Oblast'. Cherkassy
(470.344)	Chuvashskaya (Chuvash) ASSR (capital Cheboksary)	(477.46)	Levoberezhnaya Ukraina (Left-bank Ukraine)
(470.345)	Mordovskaya (Mordvin) ASSR (capital Saransk)	(477.5)	Chernigovskaya Oblast'. Chernigov
(470.4)	Middle and lower Volga regions	(477.51)	Sumskaya Oblast'. Sumi
(470.40/ 43)	Middle Volga region	(477.52)	Poltavskaya Oblast'. Poltava
(470.40)	Penzenskaya Oblast'. Penza	(477.53)	Khar'kovskaya Oblast'. Khar'kov
(470.41)	Tatarskaya (Tatar) ASSR (capital Kazan')	(477.54)	Donets-Dnepr region
(470.42)	Ul'yanovskaya Oblast'. Ul'yanovsk	(477.6)	Luganskaya Oblast'. Lugansk
(470.43)	Kuybyshevskaya Oblast'. Kuybyshev	(477.61)	(Voroshilovgrad)
(470.44/ 47)	Lower Volga region	(477.62)	Donetskaya Oblast'. Donetsk
(470.44)	Saratovskaya Oblast'. Saratov	(477.63)	Dnepropetrovskaya Oblast'. Dnepropetrovsk
(470.45)	Volgogradskaya Oblast'. Volgograd (formerly Stalingrad)	(477.64)	Zaporozhskaya Oblast'. Zaporozhye
(470.46)	Astrakhanskaya Oblast'. Astrakhan	(477.7)	Black Sea region. Southern Ukraine
(470.47)	Kalmytskaya (Kalmyk) ASSR (capital Elista)	(477.72)	Khersonskaya Oblast'. Kherson
(470.5)	Ural region	(477.73)	Nikolayevskaya Oblast'. Nikolayev
(470.51/ 54)	Middle Ural region	(477.74)	Odesskaya Oblast'. Odessa
(470.51)	Udmurtskaya (Udmurt) ASSR (capital Izhevsk)	(477.75)	Krymskaya Oblast'. Krym (Crimea)
(470.53)	Permskaya Oblast'. Perm	(477.8)	Western Ukraine
(470.531)	Komi-Permyatskiy Natsional'nyy Okrug (Komi-Permyak National Region) (capital Kudymkar)	(477.81)	Rovensskaya Oblast'. Rovno
(470.54)	Sverdlovskaya Oblast'. Sverdlov	(477.82)	Volynskaya Oblast'. Volyn
(470.55/ 57)	Southern Ural region	(477.83)	L'vovskaya Oblast'. L'vov
(470.55)	Chelyabinskaya Oblast'. Chelyabinsk	(477.84)	Ternopol'skaya Oblast'. Ternopol'
(470.56)	Orenburgskaya Oblast'. Orenburg	(477.85)	Chernovitskaya Oblast'. Chernovtsy
(470.57)	Bashkirskaya (Bashkir) ASSR (capital Ufa)	(477.86)	Ivano-Frankovskaya Oblast'. Ivano-Frankovsk
(470.6)	Northern Caucasus (Kavkaz) and lower Don	(477.87)	Zakarpatskaya (Transcarpathian) Oblast'. Uzhgorod
(470.61)	Rostovskaya Oblast'. Rostov	(478.9)	Moldavskaya (Moldavian) SSR
(470.62)	Krasnodarskiy Kray. Krasnodar	(479)	—(497.14)
(470.621)	Adygeyskaya Avtonomnaya Oblast' (capital Maykop)	(479.2)	Kavkaz (Caucasus) as a whole
(470.63)	Stavropol'skiy Kray. Stavropol'	(479.22)	Zakavkaz'ye (Transcaucasia)
(470.631)	Karachayevo-Cherkesskaya Avtonomnaya Oblast' (capital Cherkessk)	(479.223)	Gruzinskaya SSR. Gruzija (Georgia)
(470.64)	Kabardino-Balkarskaya Avtonomnaya Oblast' (capital (Nal'chik)	(479.224)	Adzharskaya (Adzhar) ASSR (capital Batumi)
(470.65)	Severo-Osetinskaya (North Ossetian) ASSR (capital Ordzhonikidze)	(479.225)	Abkhazskaya (Abkhaz) ASSR (capital Sukhumi)
(470.66)	Checheno-Ingushskaya ASSR (capital Groznyy)	(479.24)	Yugo-Osetinskaya Avtonomnaya Oblast' (South Ossetian Autonomous Oblast) (capital Tskhinvali)
(470.67)	Dagestanskaya (Dagestan) ASSR (capital Makhachkala)	(479.242)	Azerbaydzhanskaya SSR. Azerbaijan
(474)	Baltic States. Pribaltika	(479.243)	Nakhichevanskaya (Nakhichevan) ASSR
(474.2)	—(470.26)	(479.25)	Negorno-Karabakhskaya Avtonomnaya Oblast' (capital Stepanakert)
(474.3)	Estonian SSR (Eesti NSV/Estonskaya SSR). Estonia	(480)	Armenyanskaya (Armenian) SSR. Armeniya (Armenia)
(474.5)	Latvian SSR (Latviyskaya SSR). Latvia		Scandinavian States
(475)	Lithuanian SSR (Lietuvos TSR/Litovskaya SSR). Lithuania		Finland (Suomi). Republic of Finland
(475.1)	Poland: period of Russian domination (after partition, to 1918)		<i>In the following subdivisions, the oblique stroke separates the Finnish form (first) from the Swedish form of name</i>
(475.2)	—(438)		Traditional division: historical provinces 1 to 9
(475.3)	Warszawa (Warsaw)	(480*1)	(see <i>Suomi käsikirja (Handbook of Finland)</i> , Helsinki, 1968)
(475.4)	Kalisz	(480*2)	Ahvenanmaa/Åland
(475.5)	Kielce	(480*3)	Varsinais Suomi/Egentliga Finland
(475.6)	Lomza	(480*4)	Uusimaa/Nyland
(475.7)	Lublin	(480*41)	Satakunta/Satakunda (historical)
(475.8)	Piotrkow (Petrokov)	(480*42)	Satakunta/Satakunda (present)
	Plock	(480*5)	Pirkanmaa. Tammermaa
	Radom	(480*51)	Häme/Tavastland (historical)
			Häme (Etelä-Häme)/Tavastland (Södra Tavastland) (present)

(480*52)	Keski-Suomi/Mellersta Finland	(485*17)	Värmland
(480*6)	Savo/Savolax (historical)	(485*18)	Orebro
(480*61)	Etelä-Savo/Södra Savolax (present)	(485*19)	Västmanland
(480*62)	Pohjois-Savo/Norra Savolax (present)	(485*20)	Kopparberg
(480*7)	Karjala/Karelen (Karelia, historical)	(485*21)	Gävleborg
(480*71)	Kymmenlaakso/Kymmenedalen	(485*22)	Västernorrland
(480*72)	Etelä-Karjala/Södra Karelen (present)	(485*23)	Jämtland
(480*73)	Pohjois-Karjala/Norra Karelen (present)	(485*24)	Västerbotten
(480*8)	Pohjanmaa/Osterbotten (historical)	(485*25)	Norrbottn
(480*81)	Etelä-Pohjanmaa/Södra Osterbotten	(485.6/.8)	Traditional division of Sweden: regions and provinces
(480*82)	Keski-Pohjanmaa/Mellersta Osterbotten	(485.6)	Götaland
(480*83)	Pohjois-Pohjanmaa/Norra Osterbotten	(485.61)	Ostergötland
(480*84)	Kainuu/Kajanaland	(485.62)	Västergötland
(480*85)	Perä-Pohjola/Nordbotten	(485.63)	Dalsland
(480*9)	Lappi/Lapland (Finnish Lapland)	(485.64)	Smaland
(480.1/.9)	Administrative districts: Lääni/läne	(485.65)	Bohuslän
(480.1)	Uusimaa/Nyland. Helsinki/Helsingfors	(485.66)	Halland
(480.2)	Turku ja Pori/Åbo och Björneborg	(485.67)	Skane
(480.3)	Ahvenanmaa/Åland	(485.68)	Blekinge
(480.4)	Häme/Tavastehus	(485.691)	Oland
(480.5)	Viipuri/Viborg (to 1944)	(485.692)	Gotland
(480.51)	Kymi/Kymmene (from 1944)	(485.7)	Svealand
(480.6)	Mikkeli/St Michel	(485.72)	Uppland
(480.7)	Kuopio (to 1960)	(485.73)	Södermanland
(480.71)	Kuopio (from 1960)	(485.74)	Västmanland
(480.75)	Pohjois-Karjala/Norra Karelen	(485.75)	Närke
(480.8)	Vaasa/Vasa (to 1960)	(485.76)	Värmland
(480.81)	Vaasa/Vasa (from 1960)	(485.77)	Dalarna
(480.87)	Keski Suomi/Mellersta Finland	(485.8)	Norrland
(480.9)	Oulu/Uleaborg (to 1938)	(485.81)	Gästrikland
(480.91)	Oulu/Uleaborg (from 1938)	(485.82)	Hälsingland
(480.99)	Lappi/Lapland (Finnish Lapland)	(485.83)	Medelpad
(481)	Norway. Kingdom of Norway	(485.84)	Ångermanland
	<i>Overseas territories:</i>	(485.85)	Jämtland
	(481-51:984) Norwegian Arctic territory	(485.86)	Härjedalen
	(481-51:99) Norwegian Antarctic territory	(485.87)	Västerbotten
	<i>Fylker (primary administrative divisions):</i>	(485.88)	Norrbottn
	<i>five-figure subdivisions, (481.11) etc.</i>	(485.89)	Lapland (Swedish Lapland)
(481.1)	Ostlandet	(489)	Denmark. Kingdom of Denmark
(481.11)	Ostfold		—(491.2); (988)
(481.12)	Akershus		<i>Aemter (primary administrative divisions):</i>
(481.13)	Oslo		<i>five-figure subdivisions, (489.11) etc.</i>
(481.14)	Hedmark	(489.1)	Sjælland (Zealand)
(481.15)	Oppland	(489.11)	Kobenhavn (Copenhagen)
(481.16)	Buskerud	(489.12)	Frederiksborg
(481.17)	Vestfold	(489.13)	Holbaek. Island of Samsø
(481.18)	Telemark	(489.14)	Soro
(481.3)	Agder	(489.15)	Praesto
(481.31)	Aust-Agder	(489.2)	Fyn (Fünen)
(481.32)	Vest-Agder	(489.21)	Odense
(481.5)	Vestlandet	(489.22)	Svendborg. Islands of Langeland, Aero
(481.51)	Rogaland	(489.3)	Maribo
(481.53)	Hordaland	(489.31)	Lolland
(481.54)	Bergen	(489.32)	Falster
(481.55)	Sogn og Fjordane	(489.4)	Jylland (Jutland, North Jutland)
(481.56)	More og Romsdal		<i>Class here information about Jutland in general</i>
(481.6)	Trondelag	(489.41)	Hjorring
(481.62)	Sor-Trondelag	(489.42)	Thisted
(481.63)	Nord-Trondelag	(489.43)	Ålborg (Aalborg)
(481.7)	Nord-Norge	(489.44)	Randers
(481.71)	Nordland	(489.45)	Viborg
(481.73)	Troms	(489.46)	Ringkøbing
(481.74)	Finnmark	(489.47)	Århus (Aarhus)
(485)	Sweden. Kingdom of Sweden	(489.48)	Vejle
(485*01/*25)	Administrative division of Sweden: läne	(489.49)	Ribe
(485*01)	Stockholm	(489.6)	Nord Slesvig (South Jutland)
(485*03)	Uppsala		—(435.1)
(485*04)	Södermanland	(489.61)	Haderslev
(485*05)	Ostergötland	(489.62)	Tonder
(485*06)	Jönköping	(489.63)	Åbenra (Aabenraa)
(485*07)	Kronoberg	(489.64)	Sonderborg. Island of Als
(485*08)	Kalmar	(489.7)	Bornholm
(485*09)	Gotland	(491.1)	Iceland. Republic of Iceland
(485*10)	Blekinge		<i>Details, e.g. syslur (primary administrative divisions) by A/Z, e.g.</i>
(485*11)	Kristianstad		(491.1GUL) Gullbringusysla. Reykjavik
(485*12)	Malmöhus		Faeroerne/Foroyar (Faeroes) (Danish)
(485*13)	Halland		
(485*14)	Göteborg och Bohus		
(485*15)	Älvsborg	(491.2)	
(485*16)	Skaraborg		

(492)	Netherlands. Kingdom of the Netherlands	(493.2)	Brabant
	—(729.88); Table I(h) example (492*...)	(493.21)	Brussel/Bruxelles (Brussels)
(492.61)	Zuid-Holland (South Holland)	(493.22)	Leuven/Louvain
(492.611)	Western Zuid-Holland. 's-Gravenhage (Den Haag/The Hague)	(493.23)	Nijvel/Nivelles
		(493.3)	West-Vlaanderen/Flandre Occidentale (West Flanders)
(492.612)	Rijnland. Leiden		Brugge/Bruges
(492.613)	Eastern Zuid-Holland. Gouda	(493.31)	Diksmuide/Dixmude
(492.614)	Delfland. Schieland	(493.32)	Ieper/Ypres
(492.616)	Westland	(493.33)	Kortrijk/Courtrai
(492.617)	Rotterdam and environs	(493.34)	Oostende/Ostende (Ostend)
(492.618)	Islands of Zuid-Holland. Rozenburg.	(493.35)	Roeselare/Roulers
	IJsselmonde. Voorne and Putten. Beijerland.	(493.36)	Tielt
	Goeree and Overflakkee	(493.37)	Veurne/Furnes
(492.619)	South-eastern Zuid-Holland. Dordrecht.	(493.38)	Oost-Vlaanderen/Flandre Orientale (East Flanders). Land van Waas/Pays de Waes
	Gorinchem. Leerdam	(493.4)	Aalst/Alost
(492.62)	Noordholland (North Holland)		Dendermonde/Termonde
(492.621)	Area around IJ and Noordzeekanaal (North Sea Canal). Amsterdam	(493.41)	Eeklo
		(493.42)	Gent/Gand (Ghent)
(492.622)	Gooi. Hilversum	(493.43)	Oudenaarde/Audenarde
(492.623)	Haarlem and environs. Haarlemmermeer	(493.44)	Sint-Niklaas/Saint-Nicolas
(492.624)	Kennemerland	(493.45)	Hainaut/Henegouwen. Borinage
(492.625)	Zaanstreek. Polders to the north of Amsterdam. Zaandam. Alkmaar	(493.46)	Ath/Aat
		(493.5)	Charleroi
(492.626)	West-Friesland	(493.51)	Mons/Bergen
(492.627)	Northernmost Noordholland. Den Helder	(493.52)	Soignies/Zinnik
(492.628)	Islands of Noordholland. Texel	(493.53)	Thuin
(492.7)	North-eastern Netherlands	(493.54)	Tournai/Doornijk
(492.71)	Friesland	(493.55)	Liège/Luik (province)
(492.718)	Friesche Eilanden (West Frisian Islands). Ameland. Schiermonnikoog. Vlieland.	(493.56)	Huy/Hoei
		(493.6)	Liège/Luik (arrondissement)
	Terschelling	(493.61)	Verviers
(492.72)	Groningen	(493.62)	Waremmen/Borgworm
(492.728)	Islands of Groningen. Rottumeroog	(493.63)	Eupen. Malmédy
(492.73)	Drenthe	(493.64)	Moresnet
(492.74)	Overijssel	(493.681)	Limburg/Limbourg. Taxandrie/Taxandrie.
(492.742)	Salland	(493.682)	Kempen/Campine
(492.744)	Twente	(493.7)	Hasselt
(492.8)	Central Netherlands		Maaseik
(492.82)	Gelderland	(493.71)	Tongeren/Tongres
(492.822)	Veluwe	(493.72)	Enclave of Baarle-Hertog/Baarle-Duc, in Netherlands
(492.823)	Betuwe	(493.73)	Luxembourg/Luxemburg (province).
(492.823.2)	Western Betuwe	(493.781)	Ardenne/Ardennen. Belgian
(492.823.5)	Eastern Betuwe		Lorraine/Lotharingen
(492.824)	Graafschap Zutphen (County of Zutphen)	(493.8)	Aarlen/Arlon
(492.83)	Utrecht		Bastogne/Bastenaken
(492.9)	Southern Netherlands		Marche
(492.91)	Zeeland	(493.81)	Neufchâteau
(492.912)	Walcheren-Beveland	(493.82)	Virton
(492.912.2)	Walcheren	(493.83)	Namur/Namen (province). Condruz. Entre
(492.912.4)	Zuid-Beveland	(493.84)	Sambre-et- Meuse/Land tussen Samer en
(492.912.6)	Noord-Beveland	(493.85)	Maas. Marlagne
(492.914)	Schouwen-Duiveland	(493.9)	Dinant
(492.915)	Tholen		Namur/Namen (arrondissement)
(492.916)	St-Philipsland		Philippeville
(492.918)	Zeeuws-Vlaanderen	(493.91)	Switzerland. Swiss Confederation
(492.93)	Noord-Brabant	(493.92)	<i>The German text of the International</i>
(492.932)	Western Noord-Brabant. Bergen-op-Zoom.	(493.93)	<i>Medium Edition contains subdivisions</i>
	Roosendaal	(494)	<i>(Städte; Landschaften; Bezirke) to</i>
(492.933)	Baronie van Breda (Barony of Breda).		<i>full-edition level. This English text includes</i>
	Langstraat		<i>only the primary divisions (cantons),</i>
(492.934)	Meierij van Den Bosch (Bailiwick of Den Bosch). 's Hertogenbosch		<i>except for the federal capital. Users</i>
(492.935)	Tilburg and environs		<i>requiring greater detail are referred to the</i>
(492.936)	Eindhoven and environs		<i>German edition</i>
(492.938)	De Peel		German Switzerland
(492.94)	Limburg		Schwyz
(492.942)	Northern Limburg. Roermond. Venlo	(494.1/.3)	Unterwalden ob dem Wald (Obwalden)
(492.945)	South-western Limburg. Maastricht	(494.11)	Unterwalden nid dem Wald (Nidwalden)
(492.947)	South-eastern Limburg. Heerlen	(494.121)	Uri
(493)	Belgium. Kingdom of Belgium	(494.122)	Appenzell Inner-Rhoden
	<i>Provinces (four-figure subdivisions) and</i>	(494.13)	Appenzell Ausser-Rhoden
	<i>arrondissements (five-figure subdivisions).</i>	(494.211)	Aargau
	<i>Dual names: Dutch/French or</i>	(494.212)	Basel (canton)
	<i>French/Dutch, according to predominant</i>	(494.22)	Basel-Stadt. Basel/Basle
	<i>language of province</i>	(494.23)	Basel-Landschaft
(493.1)	Antwerpen (province). Hageland	(494.231)	Bern (canton)
(493.11)	Antwerpen/Anvers (arrondissement)	(494.232)	Bern (Bezirk). Bern/Berne (federal capital)
	(Antwerp)	(494.24)	Glarus
(493.12)	Mechelen/Malines (Mechlin)	(494.241.1)	
(493.13)	Turnhout	(494.25)	

(494.26)	Graubünden/Grisons	(497.16)	Zeta-Banat. Montenegro. Cetinje etc.
(494.27)	Luzern/Lucerne		—(439.56); (497.3)
(494.28)	St Gallen	(497.17)	Vardar-Banat. Makedonija (Yugoslavian Macedonia). Skopje etc.
(494.29)	Schaffhausen		—(495.3)
(494.31)	Thurgau	(497.18)	Coastal Banat. Dalmatia. Split etc.
(494.32)	Solothurn	(497.19)	Vrbas-Banat. Banja Luka etc.
(494.33)	Zug	(497.2)	Bulgaria. People's Republic of Bulgaria
(494.34)	Zürich	(497.21)	Northern Bulgaria
(494.4)	French Switzerland	(497.211)	Varna
(494.41)	Fribourg/Freiburg	(497.212)	Vidin
(494.42)	Genève/Genf (Geneva)	(497.213)	Vratsa
(494.43)	Neuchâtel/Neuenburg	(497.214)	Pleven (Plevna)
(494.44)	Valais/Wallis	(497.215)	Ruse (Ruschuk)
(494.45)	Vaud/Waadt	(497.216)	Vellko Turnovo (Turnovo/Trnova)
(494.5)	Italian Switzerland. Ticino/Tessin	(497.217)	Shumen (Kolarovgrad/Sumla)
(494.9)	Liechtenstein. Principality of Liechtenstein	(497.22)	Western Bulgaria
(495)	Greece. Hellenic Republic	(497.221)	Kyustendil (Keustendil)
	—(38); (499)	(497.222)	Petrich
(495.02)	Byzantine Empire. Eastern Roman Empire (historical)	(497.223)	Sofiya (Sofia)
(495.05)	Greece under Turkish rule (historical)	(497.23)	Southern Bulgaria
(495.1)	Kentriki Ellas kai Evla (Central Greece and Euboea) Original Hellas. Livadia (historical)	(497.231)	Burgas
		(497.232)	Momchilgrad (Mastanli)
(495.11)	Attiki (Attica). Athinaí (Athens). Piraeus (Piraeus). Marathon. Voiotia (Boeotia)	(497.233)	Smolyan (Pashmakli)
		(497.234)	Plovdiv (Philippopolis)
(495.12)	Fthiotis (Phthiotis). Fokis (Phocis)	(497.235)	Stara Zagora
(495.13)	Aitolia kai Akarnania (Aetolia and Acarnania). Mesolongion (Missolonghi). Navpaktos (Lepanto)	(497.236)	Khaskovo (Haskovo)
		(497.3)	Montenegro to 1919
(495.2)	Peloponnisos (Peloponnese/Morea)		—(497.16)
(495.21)	Argolis. Korinthia (Corinthia). Navplion. Argos		
(495.219)	Kithira (Cerigo). Andikithira (Cerigotto)	(498)	Rumania (Romania). Socialist Republic of Rumania
(495.22)	Akhaia (Achaëa). Patrai. Ilia (Ellis)		Muntenia (Great Wallachia)
(495.23)	Messinia (Messenia). Messini. Pilos (Navarino)	(498.1)	Ilfov. Bucuresti (Bucharest)
(495.24)	Arkadhia (Arcadia). Tripolis	(498.11)	Prahova. Ploesti
(495.25)	Lakonia (Laconia). Sparti (Sparta)	(498.12)	Braila
(495.3)	Thessalia (Thessaly). Makedhonia (Greek Macedonia)	(498.13)	Oltenia (Little Wallachia)
		(498.2)	Dolj (Doljiu). Craiova
(495.31)	Larisa (Larissa)	(498.21)	Moldava (Rumanian Moldavia)
(495.32)	Trikala. Farsala (Pharsala)	(498.3)	Iasi
(495.33)	Ipiros (Epirus)	(498.31)	Coverlui. Galati
	<i>Provinces by A/Z, e.g.</i>	(498.32)	Transylvania
	(495.33ART) Arta	(498.4)	—(439.21)
(495.37)	Makedhonia (region). Greek Macedonia		Maramures (Maramaros). Sighet
	<i>Provinces by A/Z, e.g.</i>	(498.41)	Cojocna (Kolozs). Cluj
	(495.37THE) Thessaloniki (Thessalonica)	(498.42)	(Kolozsvar/Klausenburg)
(495.4)	Ionioi Nisoi (Ionian Islands)		Bihor. Oradea (Nagyvarad/Grosswardein)
	—(499)	(498.43)	Arad
(495.41)	Kerkira (Corfu)	(498.44)	Brasov (Brasso)
(495.42)	Paxoi (Paxo). Andipaxoi (Antipaxo)	(498.45)	Sibiu (Szeben). Sibiu (Nagyszeben)
(495.43)	Levkas (Santa Maura)	(498.46)	Banat. Timis. Timisoara (Temesvar)
(495.44)	Kefallinia (Cephalonia)	(498.5)	Bukovina (to 1940). Southern Bukovina (from 1940). Cernauti (Czernowitz), now Chernovtsy
(495.45)	Ithaki (Ithaca)	(498.6)	—(477.85)
(495.46)	Zakinthos (Zante)		Bessarabia (to 1940)
(496.02)	Turkish Ottoman Empire (in Europe), including Greece, Rumania, Bulgaria, Albania, Macedonia etc.	(498.7)	<i>Now in Moldavian SSR, — (478.9)</i>
			Chisinau (now Kishinev)
(496.1)	Turkey in Europe	(498.71)	Akkerman (now Belgorod Dnestrovskiy)
(496.11)	Istanbul (Constantinople/Byzantium)	(498.72)	Dobrogea
(496.12)	Edirne (Adrianople)	(498.8)	Danube Delta
(496.13)	Kirkklareli (Kirk-Kilissee)	(498.81)	—(282.243.76)
(496.14)	Tekirdag (Rodosto)		Constanta
(496.5)	Albania. People's Republic of Albania	(498.82)	Greek Archipelago. Islands of the Aegean Sea
(496.51)	Kossovë (Kosovo)	(499)	—(495.4)
(496.52)	Shkodër (Scutari)		Northern Aegean islands. Thasos. Limnos (Lemnos). Samothraki (Samothrace). Imbros
(497)	Balkan states in general		Lesvos (Lesbos). Town of Mitilini (Mytilene)
(497.1)	Yugoslavia (Jugoslavija). Socialist Federal Republic of Yugoslavia	(499.1)	Khios (Chios)
			Samos
(497.11)	Dunav-Banat (Danube-Banat). Srbija (Serbia). Novi Sad etc.	(499.2)	Kikladhes (Cyclades). Dhodhekanisos (Dodecanese/Sporades). Evvoia (Euboea)
		(499.3)	Rodhos (Rhodes/Rodi)
(497.111)	City of Belgrade and environs	(499.4)	Karpathos (Scarpanto)
(497.12)	Drava-Banat. Slovenija (Slovenia). Ljubljana etc.	(499.5)	Kriti (Crete). Iraklion (Candia)
(497.13)	Sava-Banat. Hrvatska (Croatia). Zagreb etc.	(499.6)	
	—(439.24)	(499.7)	
(497.14)	Morava-Banat. Nis	(499.8)	
(497.15)	Drina-Banat. Bosna-Hercegovina (Bosnia and Herzegovina). Sarajevo etc.	(5)	ASIA
	—(439.55/.56)		<i>Class here also the Orient in general</i>
		(510)	China. People's Republic of China

(511)	North-eastern China <i>except Manchuria, — (518)</i>	(519.3A/Z) (cont'd)	<i>Chagang-do. Ch'ongjin-si.</i>
(511.1)	Hopeh (Hopei/Pe-chili)		<i>Hamgyong-namdo. Hamgyong-pukdo.</i>
(511.12)	Beijing (Pei-ching/Peking)		<i>Hamhung-si. Hwanghae-namdo.</i>
(511.13)	T'ien-ching (Tientsin)		<i>Hwanghae-pukdo. Kaesong-chigu.</i>
(511.2)	Earlier autonomous provinces		<i>Kangwon-do. P'yongan-namdo.</i>
(511.21)	Shantung. Chi-nan (Tsinan)		<i>P'yongan-pukdo. P'yongyang-si.</i>
(511.218)	Wei-hai-wei	(519.5)	<i>Yanggang-do</i>
(511.22)	Shansi. T'ai-yüan	(519.5A/Z)	South Korea. Republic of Korea
(511.23)	Honan. Cheng-chou. K'ai-feng		Provinces of South Korea
(511.3)	Kiang-nan		<i>Cheju-do. Cholla-namdo. Cholla-pukdo.</i>
(511.31)	Kiangsu. Nan-ching (Nanking). Shang-hai (Shanghai).		<i>Ch'ungch'ong-namdo.</i>
(511.32)	Anhwei. Ho-fei. Huai-ning		<i>Ch'ungch'ong-pukdo. Kangwon-do.</i>
(511.33)	Kiangsi. Nan-ch'ang		<i>Kyonggi-do. Kyongsang-namdo.</i>
(512)	South-eastern China <i>—(529)</i>		<i>Kyongsang-pukdo. Pusan-si.</i>
(512.1)	Min-che	(52)	<i>Soul-t'ukpyolsi (Seoul)</i>
(512.11)	Fukien (Fuchien). Fu-chou (Foochow)	(520)	Japan and adjacent islands
(512.12)	Chekiang. Hang-chou (Hangchow)	(521)	Japan. Nippon Koku
(512.2)	Liang-hwei	(521.1)	Honshu (Honsyu/Hondo)
(512.21)	Hupei. Wu-ch'ang (Wuchang)	(521.11)	Tohoku (Ou-tiho/Ou-chiho)
(512.22)	Hunan. Ch'ang-sha (Changsha)	(521.12)	Aomori-ken
(512.3)	Liang-kwan	(521.13)	Iwate-ken
(512.31)	Kwangtung. Kuang-chou (Canton)	(521.14)	Miyagi-ken
(512.311)	Hai-nan Tao (Hainan Island)	(521.15)	Akita-ken
(512.317)	Hong Kong (British)	(521.16)	Yamagata-ken
(512.318)	Macau (Portuguese). Provincia de Macau	(521.2)	Fukushima-ken (Hukushima-ken)
(512.32)	Kwangsi Chuang Autonomous Region.	(521.22)	Kanto-chiho (Kanto-tiho)
(512.33)	Nan-ning	(521.23)	Ibaraki-ken
(513)	Kwangchow Wan/Kouang Tch'ou-wan	(521.24)	Tochigi-ken (Totigi-ken)
(513.1)	(French, historical)	(521.25)	Gumma-ken (Gunma-ken)
(513.2)	South-western China	(521.27)	Saitama-ken
(513.1)	Szechwan. Ch'eng-tu	(521.28)	Tokyo-to
(513.2)	Yun-kwei	(521.29)	Kanagawa-ken
(513.21)	Yunnan. K'un-ming (Kunming)	(521.3)	Chiba-ken (Tiba-ken)
(513.22)	Kweichow (Kueichow). Kei-yang (Kweiyang)	(521.4)	Chubu-chiho (Tyubu-tiho)
(514)	North-western China <i>except Sinkiang, — (516)</i>	(521.41)	Hokuriko-chiho (Hokuriko-tiho)
(514.1)	Shen-kan	(521.42)	Niigata-ken
(514.11)	Shensi. Hsi-an (Sian)	(521.43)	Toyama-ken
(514.12)	Kansu. Lan-chou (Lanchow)	(521.44)	Ishikawa-ken (Isikawa-ken)
(515)	Tibet. Lhasa	(521.5)	Fukui-ken (Hukui-ken)
(515.7)	Tsinghai (Koko Nor)	(521.51)	Tosan-chiho (Tosan-tiho)
(516)	Sinkiang Uigur Autonomous Region. Sinkiang (Chinese Turkestan). Dzungaria. So-ch'e (Yarkand). K'a-shih (Kashgar)	(521.52)	Yamanashi-ken (Yamanashi-ken)
(517)	Mongolia as a whole (to 1924)	(521.53)	Nagano-ken
(517.3)	Mongolia. Mongolian People's Republic (Outer Mongolia)	(521.6)	Gifu-ken (Gihu-ken)
(517.3A/Z)	Provinces (aymags) of Mongolia	(521.61)	Tokai-chiho (Tokai-tiho)
	<i>Arhangay. Bayanhongor. Bayan-Olgii.</i>	(521.62)	Shizuoka-ken (Sizuoka-ken)
	<i>Bulgan. Darhan (autonomous municipality).</i>	(521.7)	Aichi-ken (Aiti-ken)
	<i>Dornod. Dornogovi. Dundgovi. Dzavhan.</i>	(521.71)	Kinki-chiho (Kinki-tiho)
	<i>Govi-Altay. Hentiy. Hovd. Hovsgol.</i>	(521.72)	Mie-ken (Miye-ken)
	<i>Ovorhangay. Omnogovi. Selenge.</i>	(521.73)	Shiga-ken (Siga-ken)
	<i>Suhbaatar. Tov. Ulaanbaatar (Ulan-Bator; autonomous municipality). Uvs</i>	(521.74)	Kyoto-fu (Kyoto-hu)
(517.4)	China (continued). Inner Mongolian Autonomous region	(521.75)	Osaka-fu (Osaka-hu)
(518)	Manchuria (historical). Manchukuo (1931-45) <i>Now partly in Inner Mongolia, — (517.4), as well as provinces below</i>	(521.758)	Hyogo-ken
(518.1)	Liaoning	(521.76)	Awaji-shima (Awaji Islands/Awazi-sima)
(518.11)	Liaohsi (historical)	(521.77)	Nara-ken
(518.12)	Shen-yang (Mukden)	(521.8)	Wakayama-ken
(518.14)	Liaotung (historical)	(521.81)	Chugoku-chiho (Tyugoku-tiho)
(518.15)	Lü-shun (Port Arthur) and Lü-ta (Dairen)	(521.82)	Tottori-ken
(518.2)	Kirin. Ch'ang-ch'un	(521.828)	Shimane-ken (Simane-ken)
(518.3)	Heilungkiang. Ha-erh-pin (Harbin)	(521.83)	Oki-gunto (Oki Islands)
(519)	Korea	(521.84)	Okayama-ken
(519.3)	North Korea. Democratic People's Republic of Korea	(521.85)	Hiroshima-ken (Hiroshima-ken)
(519.3A/Z)	Provinces of North Korea	(522)	Yamaguchi-ken (Yamaguti-ken)
		(522.1)	Kyushu (Kyusyu)
		(522.2)	Fukuoka-ken (Hukuoka-ken)
		(522.22)	Nagasaki-ken
		(522.27)	Goto-retto (Goto Islands)
		(522.28)	Iki
		(522.3)	Tsushima (Tusima)
		(522.5)	Saga-ken
		(522.59)	Kumamoto-ken
		(522.6)	Amakusa-retto (Amakusa Islands)
		(522.7)	Oita-ken
		(522.8)	Miyazaki-ken
		(523)	Kagoshima-ken (Kagosima-ken), with islands
		(523.1)	Koshiki-retto (Kosiki-retto) and Amami-gunto
		(523.2)	Shikoku-chiho (Shikoku-tiho)
		(523.4)	Tokushima-ken (Tokushima-ken)
		(523.5)	Kagawa-ken
			Ehime-ken
			Kochi-ken (Koti-ken)

(524)	Hokkaido (Yezo)	(541.33)	Sikkim. Kingdom of Sikkim
(524.11)	Hiyama	(541.33A/Z)	Provinces of Sikkim
(524.12)	Oshima (Osima)		<i>Gangtok. Gayzing. Magan. Namchi</i>
(524.21)	Shiribeshi-yama (Siribesi-yama)	(541.35)	Nepal. Kingdom of Nepal
(524.22)	Iburi	(541.35A/Z)	Provinces of Nepal
(524.31)	Ishikari (Isikari)		<i>Bagmati. Bheri. Dhaulagiri. Gandaki.</i>
(524.32)	Sorachi (Sorati)		<i>Janakpur. Karnali. Kosi. Lumbini.</i>
(524.41)	Kamikawa		<i>Mahakali. Mechi. Narayani. Rapti.</i>
(524.42)	Rumoi (Rumoe)		<i>Sagarmatha. Seti</i>
(524.51)	Soya		
(524.52)	Abashiri (Abasiri)	(541.4)	Republic of India (continued). Bihar
(524.61)	Hidaka	(541.5)	Orissa
(524.62)	Tokachi (Tokati)	(541.9)	Andaman and Nicobar Islands
(524.71)	Kushiro (Kusiro)	(543)	Central India
(524.72)	Nemuro	(543.1)	Madhya Pradesh (Central Provinces)
(524.728)	Habomai and Shikotan (Sikotan)	(543.2)	Berar (historical)
(527)	Island territories north of Japanese mainland (to 1945)		<i>Now part of Maharashtra, — (547.1MAH)</i>
(527.1)	Kuriles (Chishima-retto) (to 1945)	(543.7)	Bhopal (historical)
	<i>Now Kuril'skiye Ostrova, — (571.64)</i>	(543.8)	<i>Now part of Madhya Pradesh, — (543.1)</i>
(527.5)	Karafuto		Vindhya Pradesh (historical)
	<i>Now South Sakhalin, — (571.64)</i>	(544.1)	<i>Now part of Madhya Pradesh, — (543.1)</i>
(528)	Island territories south of Japanese mainland —(965)	(544.13)	Madhya Bharat (historical)
(528.1)	Ogasawara-gunto (Bonin Islands).		<i>Now part of Madhya Pradesh, — (543.1)</i>
	Kazan-retto (Volcano Islands)		Gwalior (historical)
(528.3)	Ryukyu Islands	(544.14)	<i>Part of Madhya Bharat 1948-1956; now all in Madhya Pradesh, — (543.1)</i>
(529)	Taiwan. Republic of China		Indore (historical)
(529.1)	Taiwan (Formosa)		<i>Part of Madhya Bharat 1948-1956; now all in Madhya Pradesh, — (543.1)</i>
(529.8)	P'eng-hu Lieh-tao (Pescadores). Bokoto	(544.6)	Rajasthan (state). Rajputana (region)
(53)	Arabian states and territories	(544.63)	Jaipur
	—(61/62)	(544.64)	Jodhpur
(532)	Saudi Arabia. Kingdom of Saudi Arabia	(544.65)	Bikaner
(532.2)	Al Hijaz (Hejaz). Makkah (Mecca). Jiddah (Jedda). Al Madina (Medina)	(544.8)	Ajmer-Merwara (historical)
(532.5)	Asir	(545)	<i>Now part of Rajasthan, — (544.6)</i>
	—(533)	(545.2)	Northern India
(532.6)	Najd (Nejd). North and central Arabian deserts. Badiyat ash Sham (Syrian Desert). An Nafud. Jabal Shammar. Desert regions of As Summan and Ad Dahna. Ar Riyad (Riyadh)		East Punjab (historical)
(532.7)	Eastern Arabian desert. Al Ahsa (El Hasa). Al Hufuf (Hofuf). Al Bayad (Biyadh) etc.	(545.2HAR)	<i>Now divided into Punjabi Suba and Haryana.</i>
(532.8)	South-east Arabian desert region. Ar Rub al Khali. Jabal Tuwayq	(545.2PUN)	<i>West Punjab is in Pakistan, — (549.1)</i>
(533)	Yemen. Yemen Arab Republic	(545.3)	Haryana
(533A/Z)	Provinces of Yemen		Punjabi Suba
	<i>Dhamar. Hodeida. Sa'na. Tais</i>	(545.4)	Patiala and East Punjab States Union
(534)	South Yemen. People's Democratic Republic of Yemen (from 1967) (formerly Federation of South Arabia and Aden Protectorates). Islands of Perim and Socotra	(545.5)	(PEPSU) (historical)
(535)	Sultanate of Oman (Muscat and Oman)	(545.8)	Himachal Pradesh
(536)	East Arabian, Persian Gulf states		Delhi
(536.2)	United Arab Emirates (from 1971) (formerly Trucial Coast/Trucial Oman/Trucial States). Abu Dhabi. Ajman. Dubai. Fujaira. Sharja. Umm al Qaiwain. Ras al Khaimah (member from 1972)	(546.1)	Uttar Pradesh (United Provinces of Agra and Oudh)
(536.4)	Qatar	(547)	Jammu and Kashmir
(536.5)	Bahrain	(547A/Z)	Western India
(536.8)	Kuwait. State of Kuwait	(547DAD)	Union territories of western India
(54)	States of the Indian subcontinent	(547DAM)	Dadra
(540)	India. Republic of India	(547DIU)	Daman
(541)	Eastern India and neighbouring states	(547GOA)	Diu
(541A/Z)	States and territories of eastern India not enumerated below	(547NAG)	Goa
(541ARU)	Arunachal Pradesh (North East Frontier Agency)	(547.1)	Nagar Havell
(541MEG)	Meghalaya	(547.1GUJ)	Bombay state. Presidency of Bombay
(541MIZ)	Mizoram	(547.1MAH)	(historical)
(541NAG)	Nagaland	(547.2)	<i>Now divided into Gujarat and Maharashtra</i>
(541.1)	Assam	(547.6)	Gujarat
(541.13)	Tripura	(547.8)	Maharashtra
(541.14)	Manipur		Baroda (historical)
(541.2)	Bengal (historical)		<i>Now part of Gujarat, — (547.1GUJ)</i>
	—(549.3)	(548)	Saurashtra (historical)
(541.23)	West Bengal	(548A/Z)	<i>Now part of Gujarat, — (547.1GUJ)</i>
(541.31)	Bhutan. Kingdom of Bhutan	(548AMI)	Kutch (Cutch) (principality; historical)
		(548MIN)	<i>Now part of Gujarat, — (547.1GUJ)</i>
		(548PON)	Southern India and adjacent islands
		(548.1)	Union territories of southern India
		(548.2)	Amindivi Islands
		(548.21)	Minicoy Islands
		(548.22)	Pondicherry
			Tamil Nadu (formerly Madras state)
			Karnataka (formerly Mysore state)
			Mysore (city)
			Coorg (Kurg) (historical)
			<i>Now part of Karnataka</i>
			Andhra Desha
			Kerala (formerly Travancore and Cochin)
			Andhra Pradesh

(548.7)	Ceylon. Republic of Sri Lanka	(564.23)	Adana
(548.7A/Z)	Districts of Sri Lanka	(564.24)	Osmaniye (Cebelibereket)
	<i>Amparai. Anuradhapura. Badulla.</i>	(564.25)	Maras
	<i>Batticaloa. Colombo. Galle. Hambantota.</i>	(564.26)	Gaziantep (Aintab)
	<i>Jaffna. Kalutara. Kandy. Kegalla.</i>	(564.3)	Cyprus. Republic of Cyprus
	<i>Kurunegala. Mannar. Matale. Matara.</i>	(564.3A/Z)	Provinces of Cyprus
	<i>Monaragalla. Nuwara Eliya. Polonnaruwa.</i>		<i>Famagusta. Kyrenia. Larnaca. Limassol.</i>
	<i>Puttalam. Ratnapura. Trincomalee.</i>		<i>Nicosia. Paphos</i>
	<i>Vavuniya</i>		
(548.82)	Maldiv Islands. Republic of the Maldives	(565)	Turkey (continued). Region of Sivas and Trabzon
(548.83)	Republic of India (continued). Laccadive Islands	(565.1)	Sivas (region)
(549)	Pakistan (1947-1971)	(565.11)	Sivas
(549.1)	Pakistan (from 1971). Islamic Republic of Pakistan (formerly West Pakistan)	(565.12)	Tokat
	Provincial divisions of Pakistan	(565.13)	Chebinkarahissar
(549.1A/Z)	<i>Bahawalpur. Dera Ismail Khan.</i>	(565.14)	Erzincan
	<i>Hyderabad. Kalat. Khairpur. Lahore.</i>	(565.2)	Trabzon (region)
	<i>Multan. Peshawar. Quetta. Rawalpindi.</i>	(565.21)	Samsun
	<i>Sargodha</i>	(565.22)	Ordu
(549.3)	Bangladesh. People's Republic of Bangladesh (formerly East Bengal/East Pakistan)	(565.23)	Giresun
	Provinces of Bangladesh	(565.26)	Trabzon
(549.3A/Z)	<i>Chittagong. Dacca. Khulna. Rajshahi</i>	(565.27)	Gümüsane
(55)	Iran. Islamic Republic of Iran (from 1979) (formerly Empire of Iran). Persia (historical)	(565.28)	Rize
(55BAL)	Baluchistan province	(566)	Turkish Armenia and Kurdistan
	<i>Region of Baluchistan is partly in Pakistan. — (549.1)</i>	(566.11)	Erzurum
(551)	Irak-Ajmi. Tehran. Esfahan (Isfahan)	(566.12)	Kars
(552)	Taberistan. Amol	(566.13)	Artvin
(553)	Mazandaran. Sari. Gorgan	(566.14)	Dogubayazit (Bajasid)
	(Gorgan/Asterabad)	(566.15)	Van
(554)	Gilan. Rasht (Resht)	(566.16)	Hakkari
(555)	Azarbaijan (Azerbaijan). Tabriz (Tauris)	(566.21)	Diyarbakir
(556)	Kordestan (Kurdistan). Kermanshah	(566.22)	Malatya
(558)	Fars (Farsistan). Shiraz. Takht-e Jamshid (Persepolis)	(566.23)	Elazig
(559.1)	Kerman	(566.24)	Urfa
(559.2)	Khuzestan. Abadan	(566.25)	Mardin
(559.3)	Khorasan. Mashhad (Meshed). Persian Turkestan (historical)	(566.26)	Siirt
(560)	Turkey. Republic of Turkey	(566.27)	Bitlis
	—(496.02), (496.1)	(567)	Iraq. Republic of Iraq
(561.1)	Canakkale. Dardanelles	(567A/Z)	Provinces of Iraq
(561.2)	Balikesir		<i>Al-Anbar. Al-Basrah (Basra).</i>
(561.3)	Bursa		<i>Al-Muthanna. Al-Qadisiyah.</i>
(561.4)	Bilecik		<i>As-Sulaymaniyah. Babil. Baghdad. Dahuk.</i>
(561.5)	Kütahya		<i>Dhi Qar. Diyala. Irbil. Karbala'. Kirkuk.</i>
(561.6)	Eskisehir		<i>Maysan. Ninawa. Wasit</i>
(562.1)	Izmir (Smyrna)		Syria. Syrian Arab Republic
(562.2)	Manisa		—(532.6)
(562.3)	Aydin	(569.1)	Governorates of Syria
(562.4)	Denizli	(569.1A/Z)	<i>Al-Hasakah. Al-Ladhiqiyah (Latakia).</i>
(562.5)	Mugla		<i>Al-Qunaytirah. Ar-Raqqah. As-Suwayda'.</i>
(562.6)	Antalya		<i>Dar'a. Dayr az-Zawr (Deir ez Zor).</i>
(563.1)	Kastamonu		<i>Dimashq (governorate). Dimashq (city)</i>
(563.11)	Kocaeli		<i>(Damas or Damascus). Halab (Alepp or Aleppo). Hamah. Hims. Idlib. Tartous</i>
(563.12)	Bolu	(569.18)	Sanjak of Alexandretta (historical). Hatay 1919-1939
(563.13)	Zonguldak		<i>Now in Turkey. — (560)</i>
(563.14)	Sinop	(569.3)	Lebanon. Lebanese Republic
(563.15)	Cankiri	(569.3A/Z)	Governorates of Lebanon
(563.21)	Ankara		<i>Al-Biqaa' (Beqaa). Al-Janub (South Lebanon). Ash-Shamal (North Lebanon).</i>
(563.22)	Corum		<i>Bayrut (Beirut). Jabal Lubnan (Mount Lebanon)</i>
(563.23)	Amasya		Israel. State of Israel (Palestine to 1948)
(563.24)	Yozgat	(569.4)	Gaza (historical)
(563.25)	Kirsehir	(569.433)	Jerusalem District
(563.26)	Kayseri	(569.44)	Jerusalem Sub-district
(564)	Region of Konya and Adana. Cyprus	(569.44.1)	Northern District
(564.1)	Konya (region)	(569.45)	Zefat (Safad) Sub-district
(564.11)	Afyon	(569.45.1)	Kinneret Sub-district
(564.12)	Burdur	(569.452)	Yizre'el Sub-district
(564.13)	Isparta	(569.453)	'Akko (Acre) Sub-district
(564.14)	Konya	(569.454)	Haifa District
(564.15)	Aksaray	(569.46)	Haifa Sub-district
(564.16)	Nigde	(569.46.1)	Hadera Sub-district
(564.21)	Icel	(569.462)	Central District
(564.22)	Mersin	(569.47)	Sharon Sub-district
		(569.47.1)	Petah Tiqwa Sub-district
		(569.472)	Ramla Sub-district
		(569.473)	Rehovot Sub-district
		(569.474)	Tel Aviv District
		(569.48)	

(569.481)	Tel Aviv-Yafo Sub-district	(574.31)	Karagandinskaya Oblast'. Karaganda
(569.49)	Southern District	(574.32)	Dzhezkazganskaya Oblast'. Dzhezkazgan
(569.491)	Ashqelon Sub-district	(574.4)	Eastern Kazakhstan
(569.492)	Be'er Sheva' (Beersheba) Sub-district	(574.41)	Semipalatinskaya Oblast'. Semipalatinsk
(569.5)	Jordan. Hashemite Kingdom of Jordan	(574.42)	Vostochno-Kazakhstanskaya (East Kazakhstan) Oblast'. Ust'-Kamenogorsk
(569.5A/Z)	Governorates of Jordan	(574.5)	Southern Kazakhstan
	<i>Al-Asimah. Al-Balqa'. Al-Karak. Al-Khalil.</i>	(574.51)	Alma-Atinskaya Oblast'. Alma-Ata
	<i>Al-Quds. Irbid. Ma'an. Nabulus (Nablus)</i>	(574.52)	Dzhambulsкая Oblast'. Dzhambul
(57)	Asiatic USSR	(574.53)	Chimkentskaya Oblast'. Chimkent
	—(47)	(574.54)	Kzyl-Ordinskaya Oblast'. Kzyl-Orda
(571)	Asiatic RSFSR. Russia in Asia. Siberia and	(574.57)	Taldy-Kurganskaya Oblast'. Taldy-Kurgan
	Soviet Far East	(575)	Soviet Republics of Central Asia
(571.1/5)	Sibir' (Siberia)	(575.1)	Uzbekskaya SSR (Uzbekistan)
(571.1)	Western Siberia	(575.11)	Tashkentskaya Oblast'. Tashkent
(571.11)	Kurganskaya Oblast'. Kurgan	(575.122)	Andizhanskaya Oblast'. Andizhan
(571.12)	Tyumenskaya Oblast'. Tyumen	(575.123)	Namanganskaya Oblast'. Namangan
(571.121)	Yamalo-Nenetskiy Natsional'nyy Okrug.	(575.13)	Ferganskaya Oblast'. Fergana
	Salekhard	(575.14)	Samarkandskaya Oblast'. Samarkand
(571.122)	Khanty-Mansiyskiy Natsional'nyy Okrug.	(575.15)	Surkhandar'inskaya Oblast'. Termez
	Khanty-Mansiysk	(575.16)	Bukharskaya Oblast. Bukhara
(571.13)	Omskaya Oblast'. Omsk	(575.17)	Lower Amu-Darya region
(571.14)	Novosibirskaya Oblast'. Novosibirsk	(575.171)	Khorezmskaya Oblast'. Urgench
(571.15)	Altayskiy (Altai) Kray. Barnaul	(575.172)	Karakalpakskaya ASSR. Nukus
(571.151)	Gorno-Altayskaya Avtonomnaya Oblast'.	(575.18)	Syrdar'inskaya Oblast'. Gulistan
	Gorno-Altaysk	(575.192)	Kashkadar'inskaya Oblast'. Karshi
(571.16)	Tomskaya Oblast'. Tomsk	(575.194)	Dzhizakskaya Oblast'. Dzhizak
(571.17)	Kemerovskaya Oblast'. Kemerovo	(575.2)	Kirgizskaya SSR (Kirghiz SSR/Kirgizia)
(571.5)	Eastern Siberia	(575.21)	Narynskaya Oblast'. Naryn
(571.51/.52)	Central Siberia		(Tyan'-Shan'skaya/Tien-Shan Oblast',
(571.51)	Krasnoyarskiy Kray. Krasnoyarsk		1939-62)
(571.511)	Taymyrskiy (Dolgano-Nenetskiy)	(575.22)	Oshskaya Oblast'. Osh
	Natsional'nyy Okrug. Dudinka	(575.23)	Issyk-Kul'skaya Oblast'. Przhevalsk
(571.511.8)	Severnaya Zemlya	(575.3)	Tadzhikskaya SSR (Tadjikistan/Tajikistan)
(571.512)	Evenkiyskiy Natsional'nyy Okrug. Tura	(575.31)	Leninabadskaya Oblast'. Leninabad
(571.513)	Khakasskaya Avtonomnaya Oblast'. Abakan	(575.32)	Gorno-Badakhskanskaya Avtonomnaya
(571.52)	Tuvinskaya ASSR (Tannu-Tuva). Kyzyl		Oblast'. Khorog
(571.53)	Irkutskaya Oblast'. Irkutsk	(575.34)	Kulyabskaya Oblast'. Kulyab
(571.531)	Ust'-Ordynskiy Buryatskiy Natsional'nyy	(575.4)	Turkmenskaya SSR (Turkmenistan)
	Okrug. Ust'-Ordynsk	(575.41)	Maryyskaya Oblast'. Mary
(571.54)	Buryatskaya (Buryat) ASSR. Ulan-Ude	(575.42)	Tashauzskaya Oblast'. Tashauz
(571.55)	Chitinskaya Oblast'. Chita	(575.43)	Chardzhouskaya Oblast'. Chardzhou
(571.551)	Aginskiy Buryatskiy Natsional'nyy Okrug.	(575.44)	Ashkhabadskaya Oblast'. Ashkhabad
	Aginskoye	(575.45)	Krasnovodskaya Oblast'. Krasnovodsk
(571.56)	Yakutskaya ASSR. Yakutsk	(581)	Afghanistan. Kingdom of Afghanistan
(571.568)	Novosibirskiyе Ostrova	(581A/Z)	Provinces of Afghanistan
(571.6)	Soviet Far East		<i>Badakhshan. Badghisat. Baghlan. Balkh.</i>
(571.61)	Amurskaya (Amur) Oblast'. Blagoveshchensk		<i>Bamian. Farah. Faryab. Ghazni. Ghor.</i>
(571.62)	Khabarovskiy Kray. Khabarovsk		<i>Helmand. Herat. Jowzjan (Jouzian). Kabul.</i>
(571.621)	Yevreyskaya Avtonomnaya Oblast' (Jewish		<i>Kapisa. Konarha (Kunar). Laghman.</i>
	Autonomous Oblast). Birobidzhan		<i>Lowgar (Logar). Nangarhar. Nimruz.</i>
(571.63)	Primorskiy Kray. Vladivostok		<i>Oruzgan (Uruzgan). Paktia (Paktya).</i>
(571.64)	Sakhalinskaya Oblast'. Yuzhno-Sakhalinsk		<i>Parvan. Qandahar (Kandahar). Qonduz.</i>
(571.642)	Ostrov Sakhalin (Sakhalin Island)		<i>Samangan. Takhar. Vardak (Wardak).</i>
(571.645)	Kuril'skiye Ostrova (Kuriles)		<i>Zabol (Zabul)</i>
	—(527.1)	(59)	South-east Asian states and territories
(571.65)	Magadanskaya Oblast'. Magadan	(591)	Burma. Union of Burma
(571.651)	Chukotskiy Natsional'nyy Okrug (Chukchi	(591.2)	Lower Burma. Tenasserim. Salween.
	National Okrug). Anadyr'		Irrawaddy
(571.651.8)	Ostrov Vrangelya (Wrangel Island)	(591.3)	Upper Burma. Mandalay basin. Arakan
(571.66)	Kamchatskaya (Kamchatka) Oblast'.	(591.5)	Shan States
	Petropavlovsk- Kamchatskiy	(593)	Thailand (Siam). Kingdom of Thailand
(571.661)	Koryakskiy Natsional'nyy Okrug. Palana	(593A/Z)	Provinces of Thailand
(571.663)	Komandorskiye Ostrova (Komandorskiye		
	Islands)		
(574)	Kazakhskaya SSR (Kazakhstan)		
(574.1)	Western Kazakhstan		
(574.11)	Ural'skaya Oblast'. Ural'sk		
(574.12)	Gur'yevskaya Oblast'. Gur'yev		
(574.13)	Aktyubinskaya Oblast'. Aktyubinsk		
(574.14)	Mangyshlaksкая Oblast'. Shevchenko		
(574.2)	Northern Kazakhstan		
(574.21)	Kustanayskaya Oblast'. Kustanay		
(574.22)	Severo-Kazakhstanskaya (North Kazakhstan)		
	Oblast'. Petropavlovsk		
(574.23)	Kokchetavskaya Oblast'. Kokchetav		
(574.24)	Tselinogradskaya Oblast'. Tselinograd		
(574.25)	Pavlodarskaya Oblast'. Pavlodar		
(574.26)	Turgayskaya (Turgai) Oblast'. Arkalyk		
(574.3)	Central Kazakhstan		

(593A/Z) (cont'd)	Ang Thong. Buriram. Chachoengsao. Chainat. Chayaphum. Chanthaburi. Chiang Mai. Chiang Rai. Chou Buri. Chumphon. Kalasin. Kamphaeng Phet. Kanchanaburi. Khon Kaen. Krabi. Lampang. Lamphun. Loei. Lop Buri. Mae Hong Son. Maha Sarakham. Nakhon Nayok. Nakhon Pathom. Nakhon Phanom. Nakhon Ratchasima. Nakhon Sawan. Nakhon Si Thammarat. Nan. Narathiwat. Nong Khai. Nonthaburi. Pathum Thani. Pattani. Phangnga. Phatthalung. Phet Buri. Phetchabun. Phichit. Phitsanulak. Phra Nakhon-Thonburi (Bangkok). Phra Nakhon Si Ayutthaya. Phrae. Phuket. Prachin Buri. Prachuap Khiri Khan. Ranong. Rat Buri. Rayong. Roi Et. Sakon Nakhon. Samut Prakan. Samut Sakhon. Samut Songkhram. Sara Buri. Satun. Sisaket. Sing Buri. Songkhla. Sukhothai. Suphan Buri. Surat Thani. Surin. Tak. Trang. Trat. Ubon Ratchathani. Udon Thani. Uthai Thani. Uttaradit. Yala	(597.3A/Z) (cont'd)	An Giang. An Xuyen. Ba Xuyen. Bac Lieu. Bien Hoa. Binh Dinh. Binh Duong. Binh Long. Binh Thuan. Binh Tuy. Cam Ranh (municipality). Can Tho (municipality). Chau Doc. Chuong Thien. Con Son. Da Lat (municipality). Da Nang (municipality). Darlac. Dinh Tuong. Gia Dinh. Go Cong. Hau Nghia. Hue (municipality). Khanh Hoa. Kien Giang. Kien Hoa. Kien Phong. Kieng Tuong. Kontum. Lam Dong. Long An. Long Khanh. My Tho (municipality). Nha Trang (municipality). Ninh Thuan. Phong Dinh. Phu Bon. Phu Yen. Phuoc Long. Phuoc Tuy. Pleiku. Quang Duc. Quang Nam. Quang Ngai. Quang Tin. Qui Nhon (municipality). Rach Gia (municipality). Sa Dec. Sai-gon (Saigon) (municipality). Tay Ninh. Tuyen Duc. Vinh Binh. Vinh Long. Vung Tau (municipality). From 1976: Binh-Tri-Thien (formerly Quang Tri + Thua Thien (South Vietnam) + Demilitarized zone + Quang Binh (North Vietnam))
(595)	Malaysia. Federation of Malaysia —(911.11); (911.14)	(597.5)	Annam (historical) From 1954 to 1975, divided between North Vietnam and South Vietnam, — (597.3), (597.7). Reunited from 1976, — (597)
(595.01)	Federation of Malaya, 1946-64	(597.7)	North Vietnam. Democratic Republic of Viet-Nam (to 1975). Tonkin (historical)
(595.1)	Straits Settlements (historical) Now divided between Malaysia, — (595.11/.12), (595.14), and Singapore, — (595.13)	(597.7A/Z)	Provinces of North Vietnam Ha Bac. Ha-noi (Hanoi) (municipality). Ha Tay. Ha Tinh. Hai Hung. Hai Phong (Haiphong) (municipality). Hoa Binh. Lao Cai. Nam Ha. Nghe An. Ninh. Binh. Quang Ninh. Tay Bac (autonomous region). Thai Binh. Thanh Hoa. Viet Bac (autonomous region). Vinh Linh (special zone). Vinh Phuc. Yen Bai. Quang Binh united with two provinces of south Vietnam to form Binh-Tri-Thien (1976)
(595.11)	Melaka (Malacca)	(598)	Laos. People's Democratic Republic of Laos
(595.12)	Pinang (Penang)	(598A/Z)	Provinces of Laos Attopeu. Borikhan. Champassak. Houa Khong. Houa Phan. Khammouane. Luang Prabang. Phong Saly. Saravane. Savannakhet. Say a bouy. Sedone. Sithandone. Vapikhamthong. Vientiane. Xieng Khouang
(595.13)	Singapore. State of Singapore Component islands A/Z, e.g. (595.13SiN) Singapore Island	(6)	AFRICA
(595.14)	Dindings (historical) In Straits Settlements to 1935, then part of Perak, — (595.21)	(61)	North African states in general. Maghreb
(595.17)	Christmas Island (Indian Ocean) (Australian)	(611)	Tunisia. Republic of Tunisia
(595.18)	Cocos Islands (Keeling Islands) (British)	(611A/Z)	Governorates of Tunisia Al-Kaf (Le Kef). Al-Qasrayn (Kasserine). Al-Qayrawan (Kairouan). Bajah (Beja). Banzart (Bizerte). Jundubah (Jendouba). Madaniyin (Medenine). Nabul (Nabeul). Qabis (Gabes). Qafsah (Gafsa). Safaqis (Sfax). Susah (Sousse). Tunis wa al-Ahwaz (Tunis)
(595.21)	Malaysia (continued). Perak	(612)	Libya. Libyan Arab Republic
(595.212)	Ipoh	(612A/Z)	Governorates of Libya Al-Bayda'. Al-Khums. Awbari (al-Khali). Az-Zawiyah. Banghazi (Benghazi). Darnah. Gharyan. Misratah. Sabha. Tarabulus (Tripoli)
(595.22)	Pahang	(62)	Egypt and Sudan —(32)
(595.23)	Selangor	(620)	Egypt. Arab Republic of Egypt (formerly United Arab Republic)
(595.232)	Kuala Lumpur	(621)	Lower Egypt. Masr el Bahri. Nile Delta
(595.24)	Negeri Sembilan (Negri Sembilan)	(621.1)	Beheira. El Iskandariya (Alexandria)
(595.31)	Johor (Johore)	(621.2)	Gharbiya
(595.32)	Terengganu (Trengganu)	(621.3)	Daqahliya. Dumyat (Damietta). Kafr-el-Sheikh
(595.33)	Kelantan	(621.4)	Minufiya
(595.34)	Kedah	(621.5)	Sharqiya. Bûr Sa'id (Port Said). Ismâ'iliya.
(595.35)	Perlis	(621.6)	El Suweis (Suez)
(596)	Kampuchea (Cambodia). People's Republic of Kampuchea (formerly Khmer Republic)	(622)	Qalyûbiya. El Qahira (Cairo). Heliopolis
(596A/Z)	Provinces of Kampuchea Batdambang. Bok Kou (municipality). Kampong Cham. Kampong Chhnang. Kampong Saom (municipality). Kampong Spoe. Kampong Thum. Kampot. Kandal. Kaoh Kong. Keb (municipality). Kracheh. Mondol Kiri. Otdar Meanchey. Phnom Penh (municipality). Pouthisat. Preah Vihear. Prey Veng. Rotanokiri. Siemreab. Stoeng Treng. Svay Rieng. Takev		Middle Egypt
(597)	Vietnam. Socialist Republic of Vietnam (from 1976)		
(597.3)	South Vietnam. Republic of Vietnam (to 1975). Cochinchina (historical)		
(597.3A/Z)	Provinces of South Vietnam		

(622.1)	El Giza (Giza). Memphis	(661.2) (cont'd)	<i>Includes part of Spanish Sahara from 1975</i>
(622.3)	Faiyum		—(648)
(622.5)	Beni Suef		District: Nouakchott
(622.8)	El Minya	(661.2NOU)	Regions: I to VII
(622.8)	Asyût	(661.2*1/7)	Western Sudan and Niger territories (historical)
(623)	Upper Egypt	(662)	Mali. Republic of Mali
(623.1)	Sohâg. Girga		Regions of Mali
(623.3)	Qena. Dendera. El Uqsor (Luxor). Karnak. Thebes	(662.1)	<i>Bamako. Gao. Kayes. Mopti. Ségou. Sikasso</i>
(623.6)	Aswan. Elephantine. Philae	(662.1A/Z)	Upper Volta. Republic of Upper Volta
(624)	Sudan. Democratic Republic of the Sudan. Anglo-Egyptian Sudan (historical)	(662.5)	Départements of Upper Volta
(624A/Z)	Provinces of Sudan	(662.5A/Z)	<i>Centre. Centre-Ouest. Est. Hauts-Bassins. Plateaux du Nord-Mossi. Sahel. Volta-Noire. Yatenga</i>
	<i>A'ali an-Nil (Upper Nile). Al-Istiwa'iyah (Equatoria). Al-Khurtum (Khartoum). An-Nil al-Azraq (Blue Nile). Ash-Shamaliyah (Northern). Bahr al-Ghazal (Bahr el Ghazal). Darfur (Darfur). Kassala (Kassala). Kurdufan (Kordofan)</i>	(662.6)	Niger. Republic of Niger
(63)	Ethiopia. Republic of Ethiopia. Abyssinia (historical)	(662.6A/Z)	Départements of Niger
(63A/Z)	Provinces of Ethiopia		<i>Agadez. Diffa. Dosso. Maradi. Niamey. Tahoua. Zinder</i>
	<i>Arusi. Bale. Begemdir and Simem. Eritrea. Gemu Gofa. Gojam. Harer. Ilubabor. Kefa. Shewa. Sidamo. Tigre. Welega. Welo</i>	(663)	Senegal. Republic of Senegal
(635)	Eritrea (historical)	(663.1)	Région du Fleuve. Saint-Louis
(64)	Morocco. Kingdom of Morocco	(663.12)	Département Dagana
(64A/Z)	Provinces and prefectures of Morocco	(663.13)	Département Podor
	<i>Agadir. Al-Hoceima. Beni Mellal. Casablanca (prefecture). El-Jadida. Fès. Kenitra. Khouribga. Ksar es-Souk. Marrakech. Meknès. Nador. Quarzazate. Oujda. Rabat-Salé (prefecture). Safi. Settât. Tangier. Tarfaya. Taza. Tétouan</i>	(663.14)	Département Matam
	<i>From 1969, includes Ifni. From 1975, includes part of Spanish Sahara (Rio de Oro); formerly — (648)</i>	(663.2)	Région du Cap-Vert. Dakar
(642)	Er Rif. Tetuan (historical). Spanish Morocco, 1911-1956	(663.3)	Région de Thiès
(642.8)	Tangier to 1956	(663.32)	Département de Thiès
(647)	Spanish possessions on north African coast (historical). Ceuta. Chafarinas. Penon de Velez de la Gomera. Alhucemas. Melilla	(663.33)	Département de Tivouane
(648)	Spanish possessions in West Africa (historical). Ifni. Spanish Sahara (Rio de Oro) <i>Ifni from 1969 in Morocco, — (64). Spanish Sahara from 1975 divided between Morocco, — (64), and Mauritania, — (661.2)</i>	(663.34)	Département de M'Bour
(649)	Islas Canarias (Canary Islands) (Spanish), as part of Africa	(663.5)	Région de Diourbel
(649.1)	—(468.5)	(663.52)	Département de Diourbel
(649.2)	Teneriffa	(663.53)	Département de Bambey
(649.3)	Gran Canaria	(663.54)	Département de M'Backé
(649.4)	Palma	(663.55)	Département de Linguère
(649.5)	Gomera	(663.56)	Département de Kébémér
(649.6)	Hierro (Ferro)	(663.57)	Département de Louga
(649.7)	Fuerteventura	(663.6)	Région du Sine Saloum
	Lanzarote	(663.62)	Département de Kaolack
(649.8)	Madeira (Portuguese), as part of Africa	(663.63)	Département de Kaffrine
(649.9)	—(469.8)	(663.64)	Département de Gossas
	Açores (Azores) (Portuguese), as part of Africa	(663.65)	Département de Fatick
	—(469.9)	(663.66)	Département de Foundiouné
(65)	Algeria. Democratic Popular Republic of Algeria	(663.67)	Département de Nioro
(65A/Z)	Départements of Algeria	(663.7)	Région du Sénégal Oriental
	<i>Alger (Algiers). Annaba. Aurès. Constantine. El-Asnam. Médéa. Mostaganem. Oasis. Ouahrân (Oran). Saïda. Saoura. Sétif. Tiaret. Tizi-Ouzou. Tlemcen</i>	(663.72)	Département de Bakel
(66/67)	States and territories south of the Sahara. Sub-Saharan Africa	(663.73)	Département de Kédougou
(66)	West African states and territories	(663.74)	Département de Tambacounda
(661.1)	French Sahara (historical)	(663.8)	Région de Casamance
(661.2)	Mauritania. Islamic Republic of Mauritania	(663.82)	Département de Ziguinchor
		(663.83)	Département de Sedhiou
		(663.84)	Département de Kolda
		(663.85)	Département de Vélingara
		(663.86)	Département de Oussouye
		(663.87)	Département de Bignona
		(664)	Sierra Leone. Republic of Sierra Leone
		(664A/Z)	Provinces (and Area) of Sierra Leone
			<i>Eastern. Northern. Southern. Western (Area), including Freetown</i>
		(665)	Upper Guinea states and territories
		(665.1)	Gambia. Republic of Gambia
		(665.1A/Z)	Divisions of Gambia
			<i>Banjul (city) (Bathurst). North Bank. Lower River. MacCarthy Island. Upper River. Western</i>
		(665.2)	Guinea. Republic of Guinea
		(665.2A/Z)	Regions of Guinea
			<i>Beyla. Boffa. Boké. Conakry. Dabola. Dalaba. Dingulraye. Dubréka. Faranah. Forécariah. Fria. Gaoual. Guéckédou. Kankan. Kérouané. Kindia. Kissidougou. Koundara. Kouroussa. Labé. Macenta. Mali. Mamou. Nzérékoré. Pita. Siguiri. Téliélé Tougué. Yomou</i>
		(665.7)	Guinea-Bissau. Republic of Guinea-Bissau (Portuguese Guinea to 1974)
		(665.711)	Concelho de Bafata
		(665.712)	Concelho de Bissau
		(665.713)	Concelho de Bolama
		(665.714)	Circunscriçao de Cacheu

(665.715)	Circunscriçao de Catlo	(67)	Equatorial and central African states and territories
(665.716)	Circunscriçao de Farim		Lower Guinea states and territories
(665.717)	Circunscriçao de Fulacunda	(671)	Cameroon, United Republic of Cameroon
(665.718)	Concelho de Gabu	(671.1)	(German Cameroon 1884-1918, Cameroon under French Mandate 1918-1960)
(665.719)	Concelho de Mansoa		—(669.85)
(665.721)	Circunscriçao de Sao Domingos		Federated States: East Cameroon, West Cameroon. Départements
(665.722)	Concelho de Bissora		<i>East Cameroon. Adamaoua. Bamboutos. Bamoun. Bénoué. Boumba-Ngoko. Diamaré. Dja-et-Lobo. Haut-Nkam. Haut-Nyong. Haute-Sanaga. Kadeï. Kribi. Léké. Logone-et-Chari. Lom-et-Djerem. Margui-Wandala. Mayo-Danai. Mbam. Méfou. Ménoua. Mifi. Mungo. Ndé. Nkam. Ntem. Nyong-et-Kélé. Nyong-et-Mfoumou. Nyong-et-Soo. Sanaga-Maritime. Wouri. West Cameroon. Bamenda. Kumba. Mamfe. Nkambe. Victoria. Wum.</i>
(665.79)	Arquipélago dos Bijagos (Bissagos Islands)	(671.1A/Z)	
(665.791)	Circunscriçao de Bijagos		Equatorial Guinea, Republic of Equatorial Guinea (Spanish Guinea to 1968).
(665.8)	Arquipélago de Cabo Verde (Cape Verde Islands). Provincia de Cabo Verde		(671.8MBI) Province of Mbini (formerly Rio Muni)
(665.81)	Grupo de Barlavento		Province of Fernando Poo (including capital Rey Malabo, formerly Santa Isabel). Island of Macias Nguema (Macios Nguema Biyoga, formerly Fernando Poo). Pagalu (formerly Annobon). Corisco. Elobeyes
(665.811)	Ilha de Santo Antao		French Equatorial Africa (historical)
(665.812)	Ilha de Sao Vicente		—(674)
(665.813)	Ilha de Santa Luzia		Gabon. Gabonese Republic
(665.814)	Ilha de Sao Nicolau		Regions of Gabon
(665.815)	Ilha do Sal		<i>Estuaire. Haut-Ogooué. Moyen-Ogooué. Ngounié. Nyanga. Ogooué-Ivindo. Ogooué-Lolo. Ogooué-Maritime. Woleu-Ntem</i>
(665.816)	Ilha da Boavista	(671.8)	Congo (Brazzaville). Republic of the Congo
(665.82)	Grupo de Sotavento		Regions of Congo
(665.821)	Ilha do Maio		<i>Bouenza. Brazzaville (Federal District). Cuvette. Kouilou. Lékoumou. Likouala. Niari. Plateaux. Pool. Sangha</i>
(665.822)	Ilha de Santiago		Angola. Republic of Angola (Portuguese West Africa to 1975)
(665.823)	Ilha do Fogo		Distrito de Cabinda
(665.824)	Ilha Brava		Distrito do Zaire
(666.2)	Liberia. Republic of Liberia		Distrito do Uige
(666.2A/Z)	Counties of Liberia		Distrito de Luanda
	<i>Bong. Grand Bassa. Grand Cape Mount. Grand Gedeh. Lofa. Maryland. Montserrado (including Monrovia). Nimba. Sinoe</i>	(671.9)	Distrito do Cuanza Norte
(666.8)	Ivory Coast. Republic of the Ivory Coast		Distrito do Cuanza Sul
(666.8A/Z)	Départements (and Autonomous municipalities) of Ivory Coast	(672)	Distrito de Malanje
	<i>Abengourou. Abidjan. Abidjan (municipality). Aboisso. Adzopé. Agboville. Biankouma. Bondoukou. Bouaflé. Bouaké. Bouake (municipality). Boundiali. Daloa. Danané. Dimbokro. Divo. Ferkéssédougou. Gagnoa. Guiglo. Katiola. Korhogo. Man. Odienné. Sassandra. Séguéla. Touba</i>	(672.1)	Distrito da Lunda
		(672.1A/Z)	Distrito de Benguela
			Distrito do Huambo
		(672.4)	Distrito do Bié
		(672.4A/Z)	Distrito de Moxico
(667)	Ghana. Republic of Ghana (Gold Coast to 1957)		Distrito de Moçamedes
(667A/Z)	Regions of Ghana		Distrito da Huila
	<i>Accra (Capital District). Ashanti. Brong-Ahafo. Central. Eastern. Northern. Upper. Volta. Western</i>	(673)	Distrito do Cunene
(668)	Togoland and Dahomey		Distrito de Cuando Cubango
(668.1)	Togo. Togolese Republic		Inner African (central African) territories
(668.1A/Z)	Circonscriptions of Togo		Central African Republic (Ubangi-Shari, French Equatorial Africa, to 1958, Central African Empire, 1976-79)
	<i>Akposso. Anecho. Atakpame. Bafilo. Bassari. Dapango. Kandé. Lama-Kara. Lomé. Mango. Niamtogo. Pagouda. Palimé (Klouto). Sokodé. Soutouboua. Tabligbo. Tsévié. Vogan</i>	(673.11)	Prefectures of Central African Republic
(668.12)	Togoland under UK Trusteeship (1919-1957)	(673.13)	<i>Bamingui-Bangoran. Basse-Kotto. Haute-Kotto. Haute-Sangha. Haut-Mbomou. Kémo-Gribingui. Lobaye. Mbomou. Nana-Mambere. Ombella-Mpoko. Ouaka. Ouham. Ouham-Pendé. Vakaga</i>
	—(667)	(673.14)	Chad. Republic of Chad (territory of French Equatorial Africa to 1959)
(668.13)	Togoland under French Trusteeship (1919-1956)	(673.15)	Prefectures of Chad
	<i>Now — (668.1)</i>	(673.16)	<i>Batha. Biltine. Borkou-Ennedi-Tibesti. Chari-Baguirmi. Gùera. Kanem. Lac. Logone Occidental. Logone Oriental. Mayo-Kebbi. Moyen-Chari. Ouaddai. Salamat. Tandjilé</i>
(668.2)	Benin. People's Republic of Benin (Dahomey to 1975)	(673.17)	
(668.2A/Z)	Départements of Benin	(673.18)	
	<i>Atacora. Atlantique (including Cotonou). Borgou. Mono. Quémé. Zou</i>	(673.19)	
(669)	Nigeria. Federal Republic of Nigeria	(673.26)	
(669A/Z)	States of Nigeria	(673.27)	
	<i>Benue-Plateau. East Central. Kano. Kwara. Lagos. Mid-Western. North-Central. North-Eastern. North-Western. Rivers. South-Eastern. Western</i>	(673.28)	
		(673.29)	
(669.85)	Cameroon under British Mandate (1918-1961)	(673.35)	
	—(671.1)	(673.36)	
(669.95)	Provincia de Sao Tome e Principe. Islands of Sao Tomé and Principe	(673.37)	
(669.951)	Ilha de Sao Tomé	(673.38)	
(669.952)	Ilha do Principe	(674)	
(669.953)	Sao Joao Baptista de Ajuda	(674.1)	
		(674.1A/Z)	
		(674.3)	
		(674.3A/Z)	

(675)	Zaire. Republic of Zaire (formerly Congo (Kinshasa)/ Democratic Republic of the Congo) (Belgian Congo to 1960)	(679)	Mozambique. People's Republic of Mozambique (Provincia de Moçambique/Portuguese East Africa to 1975)
(675A/Z)	Regions and capital of Zaire <i>Bandundu. Bas-Zaire. Equateur. Haut-Zaire. Kasai- Occidental. Kasai-Oriental. Kinshasa (Neutral City). Kivu. Shaba (Katanga)</i>	(679.1)	<i>Distrito do Niassa</i>
(675.97)	Burundi. Republic of Burundi	(679.2)	<i>Distrito de Cabo Delgado</i>
(675.97A/Z)	Provinces of Burundi <i>Bubanza. Bujumbura. Bururi. Gitega. Muramvya. Muyinga. Ngozi. Ruyigi</i>	(679.3)	<i>Distrito de Moçambique</i>
(675.98)	Rwanda. Republic of Rwanda	(679.4)	<i>Distrito da Zambézia</i>
(675.98A/Z)	Prefectures of Rwanda <i>Butare. Byumba. Cyangugu. Gisenyi. Gitarama. Kibungo. Kibuye. Kigali. Ruhengeri</i>	(679.5)	<i>Distrito de Gaza</i>
(676)	East African states <i>Includes former British East Africa</i>	(679.6)	<i>Distrito de Tete</i>
(676.1)	Uganda. Republic of Uganda	(679.7)	<i>Distrito de Manica e Sofala</i>
(676.11/.16)	Regions of Uganda <i>Districts by A/Z</i>	(679.74)	<i>Distrito de Beira</i>
(676.11)	Buganda Region <i>Districts: East Buganda. Masaka. Mubende. West Baganda</i>	(679.77)	<i>Distrito de Vila Pery</i>
(676.13)	Western Region <i>Districts: Ankole. Bunyoro. Kigezi. Toro</i>	(679.8)	<i>Distrito de Inhambane</i>
(676.15)	Eastern Region <i>Districts: Bugisu. Bukedi. Busoga. North Karamoja. Sebei. South Karamoja. Teso</i>	(679.9)	<i>Distrito de Lourenço Marques. Maputo</i>
(676.16)	Northern Region <i>Districts: East Acholi. Lango. Madi. West Acholi. West Nile</i>	(68)	States and territories of Southern Africa
(676.2)	Kenya. Republic of Kenya	(680)	South Africa. Republic of South Africa
(676.2A/Z)	Provinces (and Area) of Kenya <i>Central. Coast. Eastern. Nairobi (Area). North- Eastern. Nyanza. Rift Valley. Western</i>	(680-55)	Bantustans
(677)	Somalia. Somali Democratic Republic (British Somaliland and Italian Somaliland to 1960)	(681)	Botswana. Republic of Botswana (Bechuanaland Protectorate to 1966)
(677A/Z)	Regions of Somalia <i>Alto Giuba (Upper Giuba). Basso Giuba (Lower Giuba). Benadir. Burro (Northeast). Hargeisa (Northwest). Hiran. Migiurtinia (Mijurtein). Mudugh</i>	(681A/Z)	Districts of Botswana <i>Central (Ngwato). Ghanzi. Kgalagadi. Kgatleng. Kweneng. North East. North West (Chobe and Ngamiland). Southern (Ngwaketse). South East Towns: Francistown. Gaborone. Lobatse Townships: Orapa. Selebi-Pikwe</i>
(677.1)	Djibouti. Republic of Djibouti (French Somaliland/Territoire des Afars et des Issas to 1977)	(682)	South Africa (continued). Transvaal
(677.1A/Z)	Cercles of Djibouti <i>Ali-Sabieh. Dikkil. Djibouti. Obock. Tadjoura</i>	(682.1)	Pretoria
(677.2)	British Somaliland (historical)	(682.2)	Witwatersrand. Johannesburg. Krugersdorp
(677.28)	Socotra <i>Territory of South Yemen. — (534)</i>	(682.3)	Mid South. Heidelberg. Standerton. Bethel
(677.3)	Italian Somaliland (historical)	(682.4)	South-eastern districts. Wakkerstroom. Pietretief. Ermelo. Carolina
(678)	Tanzania. United Republic of Tanzania (Tanganyika and Zanzibar separately to 1964)	(682.5)	Eastern districts. Barberton. Lijdenburg. Middleburg
(678.1)	Zanzibar	(682.6)	Zoutpansberg. Pietersburg
(678.1A/Z)	Provinces of Zanzibar not enumerated below (or group all here) <i>Pemba. Zanzibar Mjini. Zanzibar Shambani North. Zanzibar Shambani South</i>	(682.7)	Waterberg
(678.15)	Pemba	(682.8)	Rustenburg. Marico
(678.16)	Mafia	(682.9)	South-western districts. Lichtenburg. Potchefstroom. Wolmaransstad. Bloemhof
(678.2/.9)	Tanganyika	(683)	Zululand. Amatonga
(678.2/.9A/Z)	Regions of Tanganyika <i>Arusha. Coast. Dodoma. Iringa. Kigoma. Kilimanjaro. Mara. Mbeya. Morogoro. Mtwara. Mwanza. Ruvuma. Shinyanga. Singida. Tabora. Tanga. West Lake</i>	(683.1)	Eastern Zululand. Nwandwe. Hlabiza. Mahlabatini. Emtongjaneni. Umfolosi
		(683.2)	Western Zululand. Eshowe. Umlazi. Mtunzini. Nkandhla. Nkutu
		(683.4)	Swaziland. Kingdom of Swaziland
		(683.4A/Z)	Districts of Swaziland <i>Hhohho. Lubombo. Manzini. Shiselweni</i>
		(683.5)	Northern Swaziland (historical). Randberge. Peak. Mbabane
		(683.6)	Southern Swaziland (historical) Ubombo. Mankaiana. Hlatikulu
		(683.7)	South Africa (continued). Amatonga
		(683.8)	Northern Amatonga. Ingwavuma. Tongaland. Maputa
		(683.9)	Southern Amatonga. Ubombo
		(684)	Natal
		(684.1)	Northern districts. Vrijheid. Nyotahe. Babanango. Paul-Pieter's-Burg. Utrecht
		(684.2)	Klip River Division. Newcastle. Dundee. Klip River (district). Umsinga. Helpmakaar. Impofana
		(684.3)	Weenen Division. Bergville. Upper Tugela. Estcourt. Weenen (district)
		(684.4)	Umvoti Division. Krantzkop. Umvoti (district). Mapumulo
		(684.5)	Pietermaritzburg Division. Lions River. Howick. Impendhle. Underberg. Ipolela. Ixopo. New Hanover. Indwedwe. Umgeni. Umkomanzi. Richmond. Camperdown
		(684.6)	Victoria. Lower Tugela. Inanda
		(684.7)	Durban. Umlazi
		(684.8)	Alexandra (Umginto)
		(684.9)	Alfred. Alfred (district). Lower Umzimkulu
		(685)	Orange Free State
		(685.1)	Central region. Bloemfontein
		(685.2)	Western region. Fauresmith. Jacobsdal
		(685.3)	North-western region. Boshof. Hoopstad

(685.4)	Northern region. Kroonstad. Vredefort.	(689.7A/Z) (cont'd)	<i>Central Region. Dedza. Dowa. Kasungu.</i>
(685.5)	Heilbron. Lindley. Frankfort		<i>Lilongwe. Mchinji. Ncheu. Nkhatakota.</i>
(685.6)	North-eastern region. Vrede. Harrismith.		<i>Ntchisi. Salima. Northern Region. Chitipa.</i>
(685.7)	Bethlehem		<i>Karonga. Mzimba. Nkhata Bay. Rumphu</i>
(685.8)	Upper eastern region. Senekal. Winburg		<i>Southern Region. Blantyre. Chickwawa.</i>
(685.9)	Lower eastern region. Ficksburg. Ladybrand.		<i>Chiradzulu. Kasupa. Mangochi. Mulanje.</i>
(686)	Thaba'nchu		<i>Nasanje. Thyolo. Zomba</i>
(686.1A/Z)	South-eastern region. Wepener. Rouxville.	(69)	African islands of the Indian and South Atlantic oceans
(686.3)	Smithfield	(691)	Madagascar. Democratic Republic of
(686.4)	South-western region. Edenburg. Bethuli.	(691A/Z)	Madagascar (Malagasy Republic 1958-1975)
(686.5)	Philippolis		Provinces of Madagascar not enumerated below
(686.6)	Basutoland. Kaffraria (historical)		(or group all here)
(686.7)	Lesotho. Kingdom of Lesotho (Basutoland to 1966)		<i>Diégo-Suarez. Fianarantsoa. Majunga.</i>
(686.8)	Districts of Lesotho		<i>Tamatave. Tananarive. Tuléar</i>
(686.9)	<i>Berea. Butha Buthe. Leribe. Mafeteng.</i>	(691.1)	High Central Region
(686.10)	<i>Maseru. Mohale's Hoek. Mokhotlong.</i>	(691.11)	Merina (Tananarive) and prefectures
(686.11)	<i>Qacha's Nek. Quthing</i>	(691.12)	Betsileo (Fianarantsoa) and prefectures
(686.12)	East Griqualand (historical)	(691.13)	Bara (Ihosy)
(686.13)	Pondoland	(691.14)	Sihanaka (Ambatondrazaka)
(686.14)	Tembuland	(691.2)	Eastern Region
(686.15)	Bomvanaland	(691.21)	Bezanozano (Moramanga)
(686.16)		(691.22)	Tanala (Ifanadiana)
(686.17)	South Africa (continued). Transkei	(691.23)	Betsimisaraka (Tamatave)
(686.18)	Galekaland	(691.24)	Islamic settlements of the south east
(686.19)	Fingoland	(691.3)	Northern Region
(686.20)	Cape Province	(691.31)	Tsimihety (Mandritsara)
(686.21)	West Province	(691.32)	Antankarana (Diégo)
(686.22)	Cape (district)	(691.4)	Western Region
(686.23)	Cape Town (Capetown/Kaapstad)	(691.41)	Sakalava and prefectures
(686.24)	North West Province	(691.5)	Southern Region
(686.25)	South West Province	(691.51)	Mahafaly (Ampanihy)
(686.26)	Central Province	(691.52)	Antanaroy (Ambovombe)
(686.27)	South East Province	(694)	Islands north of Madagascar
(686.28)	North East Province	(694.1)	Archipel des Comores (Comoro Islands)
(686.29)	East Province		(French). Great Comoro. Anjouan. Mayotte.
(686.30)	Northern area. West Griqualand		Mohilla (Mohéli)
(686.31)	Kimberley		Federal and Islamic Republic of the Comoros (from 1978) (excluding Mayotte)
(686.32)	British Bechuanaland to 1895		
(686.33)	South West Africa/Namibia		
(686.34)	Magisterial Districts of South West Africa		
(686.35)	<i>Bethanien. Gibeon. Gobabis. Grootfontein.</i>	(694.2)	Aldabra Islands (British Indian Ocean Territory)
(686.36)	<i>Kaokoveld (Tribal Magisterial Dist.).</i>		—(697)
(686.37)	<i>Karibib. Keetmanshoop. Lüderitz.</i>	(694.3)	Cosmoledo Islands
(686.38)	<i>Maltahohe. Okahandja. Okavango (Tribal Magisterial Dist.).</i>	(694.4)	<i>belong to Seychelles, — (696)</i>
(686.39)	<i>Outo. Ovamboland (Tribal Magisterial Dist.).</i>	(694.5)	Iles Glorieuses (French)
(686.40)	<i>Rehoboth. Swakopmund. Tsumeb.</i>		—(698.1)
(686.41)	<i>Walvis Bay (enclave). Walvis Bay</i>	(694.6)	Providence Island
(686.42)	<i>(Magisterial Dist.). Warmbad. Windhoek.</i>		<i>belongs to Seychelles, — (696)</i>
(686.43)	<i>Eastern Caprivi Strip (South African)</i>		Farquhar Islands (British Indian Ocean Territory)
(686.44)			—(697)
(686.45)	Rhodesia and Nyasaland (Federation of Rhodesia and Nyasaland, to 1963)	(694.7)	Agalega Islands
(686.46)	Zimbabwe. Republic of Zimbabwe (Southern Rhodesia and de facto Republic of Rhodesia to 1980)	(695)	—(698.2)
(686.47)	Provinces of Zimbabwe	(696)	Amirante Islands
(686.48)	<i>Manicaland. Midlands. Mashonaland, North. Mashonaland, South.</i>		<i>belong to Seychelles, — (696)</i>
(686.49)	<i>Matabeleland, North. Matabeleland, South. Victoria</i>		Seychelles. Republic of the Seychelles (from 1976). Mahé. Praslin. Ile Silhouette etc.
(686.50)			—(694.3); (694.5); (695); (697) note
(686.51)	Zambia. Republic of Zambia (Northern Rhodesia to 1964)	(697)	Chagos Archipelago (British Indian Ocean Territory from 1965). Diego Garcia. Peros Banhos. Salomon. Danger Island. Six Islands (Egmont Islands). Three Brothers (Trois Frères)
(686.52)	Western Province. Mongu. Mankoya.		<i>Formerly belonged to Mauritius, — (698.2). British Indian Ocean Territory also includes Aldabra Islands, — (694.2), Farquhar Islands, — (694.6), and Desroches - all formerly with Seychelles, — (696)</i>
(686.53)	Barotseland (historical)		Mascarene Islands
(686.54)	Southern Province. Livingstone	(698.1)	Réunion (French) (formerly Ile de Bourbon)
(686.55)	Central Province. Kabwe. Kafue. Lusaka		
(686.56)	North-Western Province. Solwezi. Kasempa		
(686.57)	Copperbelt Province. Ndola		
(686.58)	Luapula Province. Mansa. Mweru		
(686.59)	Northern Province. Kasama		
(686.60)	Eastern Province. Chipata		
(686.61)	Malawi. Republic of Malawi (Protectorate of British Central Africa, 1891-1907. Nyasaland Protectorate, 1907-1964)		
(686.62)	Regions and Districts of Malawi		

(698.1) (cont'd)	<i>Département de la Réunion includes Bassas da India, Ile Europa, Iles Glorieuses, — (694.4), Ile Amsterdam, — (699.11), Ile Saint-Paul, — (699.12), Iles Kerguelen, — (699.13); dependencies Iles Crozet, — (699.16), and Adélie Land, — (99)</i> <i>Group here by colon if required, e.g. (698.1:694.4) Iles Glorieuses as part of la Réunion</i>	(721.4) (721.5) (721.6) (722) (723) (723.1) (723.2) (723.3) (723.4) (723.5) (724) (724.1) (724.2) (724.3) (724.4) (724.5) (724.6) (724.7) (724.8) (724.9) (725) (725.1) (725.2)	Chihuahua Sonora Durango Baja California (Lower California) and adjacent islands Central Pacific states Sinaloa Jalisco Colima Michoacan Nayarit. Islas Tres Marias Central states Zacatecas San Luis Potosi Aguascalientes Guanajuato Queretaro Hidalgo Puebla Tlaxcala Morelos México and Federal District México (state) Distrito Federal (Federal District). México City Southern Gulf states (and territory) Territory of Quintana Roo Veracruz Tabasco Campeche Yucatan Southern Pacific-Coast states Guerrero Oaxaca Isthmus of Tehuantepec Chiapas
(698.2)	Mauritius. State of Mauritius (from 1968) <i>Dependencies: Agalega, — (694.7), Rodrigues, — (698.3), Cargados Carajos Shoals, — (698.4)</i> <i>For former dependency Chagos Archipelago — (697)</i>	(725.1) (725.2)	Central American states Guatemala. Republic of Guatemala Provinces (and District) of Guatemala <i>Atitlan. Central District (including Guatemala City). Izabal. Los Altos. Oriente. Petén. Quiché. Verapaz</i>
(698.3)	Rodrigues Island —(698.2)	(725.1) (725.2)	Belize (British Honduras to 1973) Districts of Belize <i>Belize. Cayo. Corozal. Orange Walk. Stann Creek. Toledo</i>
(698.4)	Cargados Carajos Shoals (St Brandon Rocks). Albatross Island. South Point Island (Coco Island). Tromelin (French) —(698.2)	(725.1) (725.2)	Honduras. Republic of Honduras Departments of Honduras <i>Atlantida. Choluteca. Colon. Comayagua. Copan. Cortes. El Paraiso. Francisco Morazan. Gracias a Dios. Intibuca. Islas de la Bahia. La Paz. Lempira. Ocotepeque. Olancho. Santa Barbara. Valle. Yoro</i>
(699)	Outlying Islands in the South Indian and South Atlantic Oceans —(99)	(726) (726QUI)	El Salvador. Republic of El Salvador Departments of El Salvador <i>Ahuachapan. Cabanas. Chalatenango. Cuscatlan. La Libertad. La Paz. La Union. Morazan. San Miguel. San Salvador. San Vicente. Santa Ana. Sonsonate. Usulután</i>
(699.1)	Islands in the South Indian Ocean	(726.1)	Nicaragua. Republic of Nicaragua Departments of Nicaragua <i>Boaco. Cabo Gracias a Dios (Territory). Carazo. Chinandega. Chontales. Estell. Granada. Jinotega. Leon. Madriz. Managua. Masaya. Matagalpa. Nueva Segovia. Rio San Juan. Rivas. Zelaya</i>
(699.11)	Ile Amsterdam (Nouvelle Amsterdam/New Amsterdam) (French) —(698.1)	(726.1) (726.2) (726.3)	Costa Rica. Republic of Costa Rica Provinces of Costa Rica <i>Alajuela. Cartago. Guanacaste. Heredia. Limon. Puntarenas. San Jose</i>
(699.12)	Ile Saint-Paul (French) —(698.1)	(726.4) (727)	Panama. Republic of Panama Provinces of Panama <i>Bocas del Toro. Chiriqui. Cocolé. Colon. Darien. Herrera. Los Santos. Panama. Veraguas</i>
(699.13)	Iles Kerguelen (French) —(698.1)	(727.1) (727.2)	Panama Canal Zone (USA to 1977; then under Panamanian jurisdiction)
(699.14)	Heard Island (Australian)	(727.3)	Caribbean territories. West Indies (Antilles)
(699.15)	MacDonald Islands (Australian)	(727.4)	Cuba. Republic of Cuba
(699.16)	Iles Crozet (French) —(698.1)	(728) (728.1)	
(699.17)	Prince Edward Islands, including Marion Island (South African)	(728.1A/Z)	
(699.2)	Islands in the South Atlantic Ocean: St Helena and dependencies (Ascension and Tristan da Cunha) (British)	(728.2) (728.2A/Z)	
(699.22)	Tristan da Cunha	(728.3)	
(699.25)	St Helena	(728.3A/Z)	
(699.26)	Ascension	(728.4) (728.4A/Z)	
(7)	NORTH AND CENTRAL AMERICA	(728.5) (728.5A/Z)	
(71)	Canada. Dominion of Canada		
(711)	British Columbia		
(712)	Yukon. Northwest Territories. Prairie Provinces		
(712.1)	Yukon Territory. Klondike region		
(712.2)	Northwest Territories. Regions: Baffin, Fort Smith, Inuvik, Keewatin. (Former Districts: Franklin, Keewatin, Mackenzie)	(728.4) (728.4A/Z)	
(712.3/.7)	Prairie Provinces		
(712.3)	Alberta		
(712.4)	Saskatchewan		
(712.7)	Manitoba		
(712.8)	Ungava Region (historical) <i>From 1927, divided between Quebec, — (714), and Newfoundland, — (718)</i>	(728.5) (728.5A/Z)	
(713)	Ontario (Upper Canada, 1791-1841)		
(714)	Quebec (Lower Canada, 1791-1841)		
(715)	New Brunswick		
(716)	Nova Scotia		
(716.9)	Cape Breton Island	(728.6)	
(717)	Prince Edward Island	(728.6A/Z)	
(718)	Newfoundland Province (including Newfoundland, Labrador)		
(718.9)	Saint Pierre and Miquelon (French)	(728.7)	
(719)	Labrador <i>Administratively part of Newfoundland Province, — (718)</i>	(728.7A/Z)	
(72)	Mexico. United States of Mexico		
(721)	Northern states	(728.79)	
(721.1)	Tamaulipas		
(721.2)	Nuevo Leon	(729)	
(721.3)	Coahuila	(729.1)	

(729.1-53:73)	Guantanamo, US Concession (from 1903)	(729.81)	Martinique (French)
(729.11)	Pinar del Rio	(729.82)	British Windward Islands (historical)
(729.12)	La Habana (Havana) (Province and City)	(729.821)	Dominica (administered with Leeward Islands to 1940; with Windward Islands, British, 1940-1967. Associated State of Dominica, 1967-1978. Commonwealth of Dominica, from 1978)
(729.13)	Matanzas		St Lucia (British, to 1967. Associated State of St Lucia, 1967-1979. State of St Lucia, independent, from 1979)
(729.14)	Former Las Villas Province		St Vincent (British, to 1969. Associated State of St Vincent, 1969-1974. State of St Vincent, independent, from 1974)
	Now three provinces:		<i>Includes some of the Grenadines For Carriacou — (729.828)</i>
	(729.14CIE) Cienfuegos	(729.822)	Grenada and Carriacou (British, to 1967. Associated State of Grenada, 1967-1974. State of Grenada, independent, from 1974)
	(729.14SAN) Sancti Spiritus		Barbados (British, to 1966. State of Barbados, independent, from 1966)
	(729.14VIL) Villa Clara		Trinidad and Tobago (British, to 1962. State of Trinidad and Tobago, independent, from 1962)
(729.15)	Camaguey		Counties (and Municipalities) of Trinidad and Tobago
(729.16)	Former Oriente Province	(729.824)	<i>Arima (Municipality). Caroni. Mayaro. Nariva. Port-of-Spain (Municipality). St David. St George. St Patrick. San Fernando (Municipality). Victoria. Tobago</i>
	Now five provinces:		
	(729.16GRA) Granma		
	(729.16GUA) Guantanamo		
	(729.16HOL) Holguin		
	(729.16SAN) Santiago de Cuba	(729.828)	
	(729.16TUN) Las Tunas		
(729.19)	Islands: Isla de Pinos, Jardines de la Reina		
(729.2)	Jamaica (British to 1962, then independent)	(729.86)	
(729.2A/Z)	Counties of Jamaica		
	Cornwall. Middlesex. Surrey	(729.87)	
(729.29)	Cayman Islands (British)		
(729.3)	Dominican Republic	(729.87A/Z)	
(729.3A/Z)	Provinces of Dominican Republic		
	Azuza. Baoruco. Barahona. Dajabon.		
	Distrito Nacional (including Santo Domingo). Duarte. El Seibo. Espaillat		
	Independencia. La Altagracia. La Romana		
	La Vega. Maria Trinidad Sanchez.		
	Montecristi. Pedernales. Peravia. Puerto Plata. Salcedo. Samana. Sanchez	(729.88)	
	Ramirez. San Cristobal. San Juan. San Pedro de Macoris. Santiago. Santiago	(729.881)	
	Rodriguez. Valverde	(729.882)	
(729.4)	Haiti. Republic of Haiti	(729.883)	
(729.4A/Z)	Departements of Haiti	(729.9)	
	Artibonite. Nord. Nord-Ouest. Ouest (including Port-au-Prince). Sud	(73)	
(729.5)	Puerto Rico (USA, 1899 to 1952). Commonwealth of Puerto Rico (associate of USA, from 1952)		
(729.5A/Z)	Districts of Puerto Rico	(74)	
	Aguadilla. Arecibo. Bayamon. Guayama	(741)	
	Humacao. Mayagüez. Ponce. San Juan	(742)	
(729.61)	Bahama Islands. Commonwealth of the Bahamas (British to 1973)	(743)	
	Constituent islands A/Z, e.g.	(744)	
	(729.61NEW) New Providence, including Nassau	(745)	
		(746)	
		(747)	
		(748)	
		(749)	
(729.68)	Turks and Caicos Islands (British)	(75)	
(729.7/ 8)	Lesser Antilles (Caribbees). Leeward and Windward Islands etc.		
(729.7)	Leeward Islands	(751)	
(729.71)	American Virgin Islands	(752)	
(729.72)	British Virgin Islands and Leeward Islands	(753)	
(729.722.2)	British Virgin Islands	(754)	
(729.722.4)	Sombrero	(755)	
(729.724)	St Kitts-Nevis-Anguilla (British, to 1967). Associated State of St Kitts-Nevis-Anguilla (associate of UK, from 1967)	(756)	
	Anguilla	(757)	
(729.724.2)	St Christopher (St Kitts)	(758)	
(729.724.4)	Nevis	(759)	
(729.724.6)	Antigua, Barbuda, Redonda (British, to 1967). Associated State of Antigua (associate of UK, from 1967)	(76)	
(729.726)	Barbuda	(761)	
	Antigua	(762)	
	Redonda	(763)	
		(764)	
		(766)	
		(767)	
		(768)	
		(769)	
		(77)	
(729.727)	Montserrat (British)	(771)	
(729.74)	Guadeloupe and dependencies (French)	(772)	
	Département de la Guadeloupe includes	(773)	
	Island of Guadeloupe, Marie Galante, Les Saintes, Désirade, Saint Barthelemy, part of Saint Martin	(774)	
	—(729.88)	(775)	
		(776)	
		(777)	
(729.8)	Windward Islands	(778)	

(78)	Western USA. Rocky Mountain states	(826.7)	Salta
(781)	Kansas	(826.9)	Jujuy
(782)	Nebraska	(828)	Provincias de la Patagonia (Zona andina patagónica y mesetas y terrazas patagónicas)
(783)	South Dakota		Neuquen
(784)	North Dakota	(828.1)	Rio Negro
(786)	Montana	(828.3)	Chubut
(787)	Wyoming	(828.6)	Santa Cruz
(788)	Colorado	(828.8)	Territorio nacional de Tierra del Fuego, Antártida e Islas del Atlántico Sur
(789)	New Mexico	(829)	Tierra del Fuego (Argentine)
(79)	Pacific coast states		—(834.5)
(791)	Arizona	(829.0)	
(792)	Utah		
(793)	Nevada		
(794)	California	(829.1)	Falkland Islands (Islas Malvinas) (British)
(795)	Oregon	(829.2)	Islands between 20° and 50° W, and between 50° and 60° S (Falkland Islands Dependencies)
(796)	Idaho		South Georgia (British)
(797)	Washington		South Sandwich Islands (British)
(798)	Alaska	(829.23)	South Shetland Islands (British)
		(829.26)	South Orkney Islands (British)
(8)	SOUTH AMERICA	(829.3)	Chile. Republic of Chile
(81)	Brazil. United States of Brazil	(829.5)	Federal capital. Santiago (city)
(811)	Northern Region (Região Norte)	(83)	Provincia de Tarapaca
(811.1)	Territorio de Rondonia (formerly Guapore)	(83-25)	Provincia de Antofagasta
(811.2)	Territorio do Acre. Estado do Acre (from 1962)	(831.2)	Provincia de Atacama
		(831.3)	Provincia de Coquimbo
(811.3)	Estado do Amazonas	(831.4)	Provincia de Aconcagua
(811.4)	Territorio de Rio Branco. Territorio Federal de Roraima (from 1962)	(831.5)	Provincia de Valparaíso. Isla de Pascua (Easter Island)
		(831.6)	Provincia de Santiago
(811.5)	Estado do Para	(831.7)	Provincia de O'Higgins
(811.6)	Territorio de Amapa		Provincia de Colchagua
(812/814)	North-eastern Region (Região Nordeste)	(831.8)	Provincia de Curico
(812.1)	Estado do Maranhao	(831.9)	Provincia de Talca
(812.2)	Estado do Piaui	(832.1)	Provincia de Linares
(813.1)	Estado do Ceara	(832.2)	Provincia de Maule
(813.2)	Estado do Rio Grande do Norte	(832.3)	Provincia de Nuble
(813.3)	Estado do Paraiba	(832.4)	Provincia de Concepcion
(813.4)	Estado de Pernambuco	(832.5)	Provincia de Bio-Bio
(813.5)	Estado de Alagoas	(832.6)	Provincia de Arauco
(813.6)	Territorio de Fernando de Noronha	(832.7)	Provincia de Malleco
(814.1)	Estado de Sergipe	(832.8)	Provincia de Cautin
(814.2)	Estado da Bahia	(832.9)	Provincia de Valdivia
(815/816.1)	South-eastern Region (Região Leste Meridional)	(833.1)	Provincia de Osorno
		(833.2)	Provincia de Llanquihue
(815.1)	Estado de Minas Gerais	(833.3)	Provincia de Chiloé
(815.2)	Estado de Espírito Santo	(834.1)	Provincia de Aysen
(815.3)	Estado de Rio de Janeiro	(834.2)	Provincia de Magallanes (including Chilean part of Tierra del Fuego)
(816.1)	Estado de São Paulo	(834.3)	—(829.0)
(816.2/.5)	Southern Region (Região Sul)	(834.4)	Bolivia. Republic of Bolivia
(816.2)	Estado de Paraná	(834.5)	Andes region
(816.4)	Estado de Santa Catarina		Potosi
(816.5)	Estado do Rio Grande do Sul		Chuquisaca
(817)	West Central Region (Região Centro-Oeste)	(84)	Cochabamba
(817.2)	Estado de Mato Grosso	(841)	Oruro
(817.3)	Estado de Goiás	(841.1)	La Paz
(817.4)	Brasília. Distrito Federal	(841.2)	Llanos (Savanna) region
(82)	Argentina. Argentine Republic	(841.3)	—(892.5)
(82-25)	Distrito Federal. Buenos Aires (city)	(841.4)	Santa Cruz
(821)	Provincias de las Llanuras chaco-bonaerenses	(841.5)	Beni
		(842)	Tarija
(821.0)	Gran Buenos Aires		Pando. Territories. Riberalta
(821.2)	Buenos Aires (Provincia)	(842.1)	Peru. Republic of Peru
(821.3)	La Pampa	(842.2)	Central Departamentos
(821.5)	Cordoba	(842.3)	Pasco
(821.6)	Santa Fe	(843)	Lima
(821.7)	Santiago del Estero	(85)	Huanuco
(821.8)	Chaco	(851)	Junin
(821.9)	Formosa	(851PAS)	Callao (Provincia Constitucional)
(822)	Provincias de la Mesopotamia argentina	(851.1)	Huancavelica
(822.1)	Entre Rios	(851.2)	Ica
(822.2)	Corrientes	(851.3)	Ayacucho
(822.3)	Misiones	(851.4)	Northern Departamentos
(825)	Provincias de la Zona andina (del norte y central). Provincias cuyanas	(851.5)	Loreto
		(851.6)	Amazonas
(825.1)	Mendoza	(851.7)	Piura
(825.2)	San Juan	(852)	Cajamarca
(825.7)	San Luis	(852.1)	Lambayeque
(826)	Provincias del Noroeste	(852.2)	
(826.1)	La Rioja	(852.3)	
(826.3)	Catamarca	(852.4)	
(826.5)	Tucuman	(852.5)	

(852.6)	La Libertad	(872.25)	Nueva Esparta
(852.7)	Ancash	(872.26)	Guarico
(852.8)	Tumbes (Provincia)	(872.28)	Apure
(852.9)	San Martin	(872.29)	Barinas
(853)	Southern Departamentos	(872.32)	Cojedes
(853.1)	Apurimac	(872.33)	Portuguesa
(853.2)	Cuzco	(872.35)	Miranda
(853.3)	Puno	(872.37)	Aragua
(853.4)	Arequipa	(872.39)	Carabobo
(853.5)	Moquegua (Provincia)	(872.42)	Yaracuy
(853.6)	Tacna	(872.44)	Falcon
(853.7)	Madre de Dios	(872.52)	Lara
(86)	Colombia (New Granada) (historical)	(872.54)	Trujillo
(861)	Colombia. Republic of Colombia	(872.62)	Merida
(861CES)	Cesar	(872.64)	Tachira
(861COR)	Cordoba	(872.66)	Zulia
(861GUA1)	Guania	(873)	Territories
(861GUAJ)	Guajira	(873.1)	Amazonas
(861QUI)	Quindio	(873.4)	Delta Amacuro
(861RIS)	Risaraldo	(88)	Guiana territories
(861SUC)	Sucre	(881)	Guyana. Cooperative Republic of Guyana
(861.1)	Magdalena area		(British Guiana to 1966)
(861.12)	Magdalena	(881A/Z)	Districts of Guyana
(861.14)	Atlantico		<i>Berbice, East. Berbice, West. Demerara,</i>
(861.2)	Bolivar area		<i>East. Demerara, West. Essequibo.</i>
(861.22)	Bolivar		<i>Essequibo Islands. Mazaruni-Potaro.</i>
(861.24)	Antioquia		<i>North West District. Rupupuni</i>
(861.3)	Province of Panama to 1903		
	<i>Now Republic of Panama, — (728.7)</i>	(882)	French Guiana (Guyane)
(861.5)	Santander area	(882A/Z)	Districts of French Guiana
(861.51)	Norte de Santander		<i>Cayenne. Inini</i>
(861.53)	Santander	(883)	Surinam (Dutch Guiana or Netherlands
(861.55)	Caldas		Guiana to 1975)
(861.57)	Valle del Cauca	(883A/Z)	Districts of Surinam
(861.59)	Huila		<i>Brokopondo. Commewijnie. Coronie.</i>
(861.7)	Other Departamentos		<i>Marowijne. Nickerie. Para. Paramaribo.</i>
(861.71)	Boyaca		<i>Saramacca. Suriname</i>
(861.72)	Cundinamarca (including Bogota)	(892)	Paraguay. Republic of Paraguay
(861.74)	Tolima	(892A/Z)	Departamentos of Paraguay
(861.76)	Cauca		<i>Alto Paraguay. Alto Parana. Amambay.</i>
(861.78)	Narino		<i>Boqueron. Caaguazu. Caazapa.</i>
(861.8)	Intendencias		<i>Canendiyu. Central. Concepcion.</i>
(861.82)	Choco		<i>Cordillera. Distrito Capital (Asuncion).</i>
(861.84)	Meta		<i>Guaira. Itapua. Misiones. Neembucu.</i>
(861.86)	San Andres y Providencia		<i>Nueva Asuncion. Paraguari. Presidente</i>
(861.9)	Comisarias		<i>Hayes. San Pedro</i>
(861.92)	Amazonas	(892.5)	El Chaco
(861.93)	Arauca	(899)	Uruguay. Republic of Uruguay
(861.94)	Caqueta	(899A/Z)	Departamentos of Uruguay
(861.96)	Putumayo		<i>Artigas. Canelones. Cerro Largo. Colonia.</i>
(861.97)	Vaupes		<i>Durazno. Flores. Florida. Lavalleja.</i>
(861.98)	Vichada		<i>Maldonado. Montevideo. Paysandu. Rio</i>
(866)	Ecuador. Republic of Ecuador		<i>Negro. Rivera. Rocha. Salto. San Jose.</i>
(866.11)	Carchi		<i>Soriano. Treinta y Tres. Tucuaembo</i>
(866.12)	Imbabura		
(866.13)	Pichincha (including Quito)	(9)	OCEANIA. ARCTIC. ANTARCTIC
(866.14)	Cotopaxi	(91)	Malay Archipelago. East Indies (historical)
(866.15)	Tungurahua	(910)	Indonesia. Republic of Indonesia
(866.16)	Chimborazo		(Netherlands East Indies/Dutch East Indies,
(866.17)	Canar		to 1949)
(866.18)	Azuay		<i>—(951)</i>
(866.19)	Loja	(911)	Borneo
(866.21)	Bolivar	(911.1)	Northern Borneo (British Borneo, historical)
(866.22)	El Oro	(911.11)	Sabah (British North Borneo to 1965)
(866.23)	Guayas		<i>From 1965, part of Malaysia, — (595)</i>
(866.24)	Los Rios	(911.13)	Brunei. Sultanate of Brunei (British
(866.25)	Manabi		protectorate)
(866.26)	Esmeraldas	(911.14)	Sarawak
(866.27)	Oriente (area)		<i>Sarawak from 1965 is part of Malaysia, —</i>
(866.272)	Pastaza. Napo		<i>(595)</i>
(866.273)	Morona-Santiago. Zamora-Chinchipe	(911.2)	Indonesia (continued). Kalimantan
(866.28)	Galapagos Islands (Archipelago de Colon).		(Netherlands Borneo/Dutch Borneo, to 1949)
	Clipperton Island	(911.21)	Kalimantan Barat (West Kalimantan)
(87)	Venezuela. Republic of Venezuela	(911.22)	Kalimantan Selatan (southern and eastern
(871)	Distrito Federal (Caracas)		Kalimantan)
(872)	States	(912)	Sulawesi (Celebes)
(872.21)	Bolivar	(912.2)	Sulawesi Utara (North Sulawesi)
(872.22)	Monagas	(912.3)	Sulawesi Selatan (South Sulawesi/West
(872.23)	Sucre		Celebes)
(872.24)	Anzoategui		

(912.4)	Sulawesi Tengah (Central Sulawesi/Middle Celebes)	(931.2A/Z) (cont'd)	<i>Auckland, Central. Auckland, South. East Coast. Hawke's Bay. Northland. Taranaki. Wellington</i>
(912.5)	Sulawesi Tenggara (Southeast Sulawesi/East Celebes)	(931.3)	South Island
(913)	Malaku (Moluccas)	(931.3A/Z)	Counties and Provincial Districts of South Island
(913.1/.5)	Malaku Selatan (Southern Moluccas)		<i>Canterbury. Marlborough. Nelson. Otago. Southland. Westland</i>
(913.1)	Ambon (Amboina) and surrounding islands		Stewart Island
(913.6/.8)	Maluku Utara (North Moluccas)	(931.5)	Chatham Islands
(913.6)	Rumpun Kepulauan Halmahera (Halmahera Islands)	(931.6)	Melanesia
(914)	Philippines. Republic of the Philippines	(932/937)	New Caledonia (Nouvelle Calédonie) and dependencies (French)
(914* 1/10A/Z)	Regions and Provinces of the Philippines, e.g. (914*2ABR) Province of Abra in Region II	(932)	Loyalty Islands (Iles Loyauté) (a dependency of New Caledonia)
	<i>Region I. Manila (Chartered City)</i>	(933)	Vanuatu. Republic of Vanuatu (from 1980)
	<i>Region II. Abra. Benguet. Ifugao. Ilocos Norte. Ilocos Sur. Kalinga-Apayao. La Union. Mountain Province</i>	(934)	(British-French Condominium of New Hebrides/Nouvelles Hébrides, to 1980)
	<i>Region III. Batanes. Cagayan. Isabela. Nueva Viscaya</i>	(934.5)	Nauru. Republic of Nauru (from 1968; formerly Australian trust territory)
	<i>Region IV (central Luzon). Bataan. Bulacan. Nueva Ecija. Pampanga. Pangasinan. Tarlac. Zambales</i>	(935)	Solomon Islands in general. British Solomon Islands Protectorate
	<i>Region V (southern Luzon and islands). Batangas. Cavite. Laguna. Marinduque. Mindoro Occidental. Mindoro Oriental. Palawan. Quezon. Rizal</i>	(936)	—(955)
	<i>Region VI (Bicol and Masbate). Albay. Camarines Norte. Camarines Sur. Catanduanes. Masbate. Sorsogon</i>	(937)	Bismarck Archipelago (New Britain. New Ireland. Manus etc.)
	<i>Region VII (western Visayas). Aklan. Antique. Capiz. Iloilo. Negros Occidental. Romblon</i>	(938)	<i>Part of Papua-New Guinea, — (955)</i>
	<i>Region VIII (eastern Visayas). Bohol. Cebu. Leyte. Leyte Sur. Negros Oriental. Samar del Norte. Samar Occidental. Samar Oriental</i>	(938.2)	Admiralty Islands
	<i>Region IX (northern Mindanao). Agusan del Norte. Agusan del Sur. Bukidnon. Camiguin. Lanao del Norte. Lanao del Sur. Misamis Occidental. Misamis Oriental. Surigao del Norte. Surigao del Sur</i>	(938.4)	<i>Part of Papua-New Guinea, — (955)</i>
	<i>Region X (southern Mindanao and Sulu). Cotabato. Cotabato Sur. Davao del Norte. Davao del Sur. Davao Oriental. Sulu. Zamboanga del Norte. Zamboanga del Sur</i>	(939)	Lord Howe Island. Norfolk Island. Kermadec Island
(92)	Indonesia (continued). Sumatra, Java and Lesser Sunda Islands	(938.6)	Lord Howe Island
(921)	Sumatera (Sumatra)	(939)	<i>Dependency of New South Wales, — (944)</i>
(921.1)	Sumatera Utara (North Sumatra)	(94)	Norfolk Island
(921.11)	Atjeh	(941)	<i>Australian government dependency, — (94)</i>
(921.12)	Sumatera Timur (eastern Sumatra)	(942)	Kermadec Island
(921.13)	Tapanuli	(943)	<i>Territory of New Zealand, — (931)</i>
(921.2)	Sumatera Selatan (South Sumatra)	(944)	New Zealand subantarctic islands. Bounty Island. Antipodes Islands. Campbell Island. Snares Islands. Auckland Islands. Macquarie Island (Australian)
(921.26)	Kepulauan Riau and neighbouring islands	(944.9)	—(699.1); (99)
(921.27)	Kepulauan Bangka (Bangka Islands)	(945)	Australia. Commonwealth of Australia
(922)	Djawa (Java) and Madura	(946)	—(937); (938); (939); (954/955); (99)
(922.1)	Djawa Barat (West Java)	(948)	Western Australia
(922.2)	Djawa Tengah (Central Java)	(95)	South Australia
(922.3)	Djawa Timur (East Java)	(951)	Queensland
(923)	Pulau Bali and Kepulauan Nusa Tenggara (Lesser Sunda Islands)	(951.2)	New South Wales (with Lord Howe Island)
(923.1)	Pulau Bali (Bali)	(951.4)	<i>Or for Lord Howe Island individually — (938.2)</i>
(923.2)	Pulau Lombok (Lombok)	(951.6)	Canberra. Australian Capital Territory
(923.3)	Kepulauan Sumbawa. Flores. Pulau Sumba	(951.8)	Victoria
(923.52)	Indonesian Timor (formerly Netherlands Timor)	(954/955)	Tasmania (Van Diemen's Land, historical)
(923.53)	East Timor (Indonesian from 1976) (Portuguese Timor/Provincia de Timor, to 1976)	(954)	Northern Territory
(93)	Australasian and Melanesian (island) territories	(955)	Irian. New Guinea territories
(931)	New Zealand		Irian Jaya (Irian Barat, West Irian or Netherlands New Guinea, historical)
(931.2)	North Island	(96)	<i>Part of Indonesia, — (910)</i>
(931.2A/Z)	Counties and Provincial Districts of North Island	(961.1)	Vogelkop. Manokwari
		(961.2)	Bombai (Bombay)
		(961.3)	Northern Irian Jaya
			Southern Irian Jaya
			Papua-New Guinea. State of Papua-New Guinea (from 1975) (formerly Papua (Australian) and UN Trust Territory of New Guinea)
			Papua (British New Guinea, historical)
			Northeastern New Guinea, Bougainville, Bismarck Archipelago and Admiralty Islands (formerly Trust Territory of New Guinea)
			<i>Bougainville is one of the Solomon Islands, — (935), but prefer (955)</i>
			<i>For Bismarck Archipelago and Admiralty Islands individually — (936), (937)</i>
			Polynesian and Micronesian territories
			Fiji. State of Fiji (independent from 1970)
			Tonga (Friendly Islands). Kingdom of Tonga
			Samoa as a whole

(961.31)	<i>Independent State of Western Samoa</i> (Samoa i Sisifo)
(961.33)	American Samoa
(961.4)	Tuvalu. State of Tuvalu (from 1978) (formerly Ellice Islands, part of colony of Gilbert and Ellice Islands, to 1976; colony of Tuvalu, 1976-78) —(968.2)
(961.5)	Phoenix Islands (historical) <i>Part of Republic of Kiribati, — (968.2)</i>
(962.1)	Iles de la Société (Society Islands/Tahiti Archipelago) (French)
(962.11)	Tahiti
(962.13)	Iles du Vent (Windward Group)
(962.2)	Iles Tubuai (Austral Islands). Rapa (French)
(962.3)	Cook Islands (New Zealand self-governing territory)
(962.4)	Tokelau Islands (Union Islands) (New Zealand territory)
(962.5)	Manahiki Archipelago
(963)	French Polynesian island territories
(963.1)	Iles Marquises (Marquesas)
(963.2)	Iles Tuamotu (Paumotu). Iles Gambier
(964)	Remaining small Polynesian islands
(965)	Micronesia
(966.1)	Caroline Islands (Trust Territory of the Pacific Islands, USA) —(966.2); (967.1); (968.1)
(966.11)	East Caroline Islands
(966.12)	West Caroline Islands
(966.2)	Palau Islands (Trust Territory of the Pacific Islands, USA)
(967.1)	Mariana Islands (Ladrone Islands), except Guam (Trust Territory of the Pacific Islands, USA)
(967.2)	Guam (USA)
(968.1)	Marshall Islands (Trust Territory of the Pacific Islands, USA)
(968.2)	Kiribati. Republic of Kiribati (from 1979) (formerly Gilbert Islands, part of colony of Gilbert and Ellice Islands, to 1975. Dependency of Gilbert Islands, 1975-1979). Consists of Gilbert Islands, Phoenix Islands, Line Islands and Ocean Island —(961.4); (961.5)
(968.3)	Magellan Archipelago
(969)	Hawaiian Islands (Sandwich Islands, historical). State of Hawaii, USA (from 1959)
(98)	Arctic territories —(160.26/.27); (211-17); (268)
(984)	European Arctic islands. Svalbard (Spitsbergen and Bjornoya/Bear Island) Jan Mayen —(48); (491.1)
(985)	Soviet Arctic, including islands —(47+57)
(987)	North American Arctic, including islands —(712); (798)
(988)	Greenland (Gronland) (Danish to 1979) —(489)
(99)	Antarctic territories. South Polar regions —(160.26/.27); (211-13); (269); (699); (829); (939) <i>Details by colon, e.g.</i> (99:410) British Antarctic Territory. Graham Land etc. —(829.1/.5) (99:44) Terres Australes et Antarctiques Françaises. Terre Adélie (Adélie Land) —(699.11); (699.12); (699.13); (699.16) (99:481) Dronning Maud Land (Queen Maud Land). Bouvet Islands. Peter I Island (Norwegian) or see under (481) (99:931) Ross Dependency (New Zealand)

(99) (cont'd)

(99:94) Australian Antarctic Territory.
Wilkes Land**TABLE I(f) COMMON AUXILIARIES OF RACE AND
NATIONALITY**

Symbol (=...) (brackets-equals)

The common auxiliaries of race and nationality denote the
nationality or ethnic aspects of a subject represented by a main
UDC number, e.g.

39(=97) North Amerindian folklore

They are derived mainly from the common auxiliaries of
language, Table I(c), and so may usefully distinguish
linguistic-cultural groups, e.g.(=20) English-speaking peoples (as
opposed to the English)

(see also the examples under (1=...) in Table I(e))

Political nationality (citizenship of nation-states) may also be
denoted, mainly by (=1.4/.9), which derive from the place
auxiliaries, Table I(e); but it may be found that the place
auxiliaries themselves will often serve as well. For ethnology as a
main subject — 572.9.**Systematic table**

(=081)	Primitive races and peoples
(=083)	Developing peoples
(=084)	Highly developed peoples
(=088)	Mixed race. Hybrid. Half-caste, e.g. mulatto
(=089)	Artificially produced races

Special auxiliary subdivisions

(=1-5)	Colonial races and peoples
(=1-81)	Autochthonous (aboriginal) races and peoples
(=1-82)	Indigenes. Native, local-born inhabitants, e.g. (=1.72-82) Native Mexicans (Mexicans born in Mexico)
(=1-86)	Race in conventional sense. Racial affinity in relation to nationality. Naturalized non-indigenous nationals

Common auxiliary subdivisions (continued)

(=1.100)	Cosmopolitans
(=1.2)	Peoples of particular physiogeographic areas (=1.2) ≈ (2), Table I(e), e.g. (=1.210.7) Islanders (=1.23) Mountain-dwellers (=1.24) Cave-dwellers. Cavernicoles. Troglodytes (=1.253) Forest, jungle-dwellers
(=1.3)	Particular nationalities of the ancient world (=1.3) ≈ (3), Table I(e), e.g. (=1.37) Ancient Romans
(=1.4/9)	Particular nationalities of the modern world (=1.4/.9) ≈ (4/9), Table I(e), e.g. (=1.493) Belgians
(=2/=9)	Various races, peoples, linguistic-cultural groups (=2/=9) ≈ =2/=9, Table I(c)
(=2)	White races in general. Western races. Occidentals. 'Europeans', 'Caucasians' (in racial sense)
(=20)	English-speaking, 'Anglo-Saxon' races and peoples
(=3)	Germanic races and peoples
(=30)	German-speaking peoples
(=4)	Romantic, 'Latin' races and peoples
(=40)	French-speaking, Gallic races and peoples
(=81)	Slavic (Slavonic) races and peoples in general
(=9)	Oriental, African and other races. Coloured races
(=91)	Indo-European, Aryan races and peoples
(=911)	Indic races and peoples
(=914.99)	Romany people. Gipsies
(=92)	Semitic races and peoples
(=924)	Hebraic. Jews. Jewish
(=927)	Arabic. Arabs. Arab
(=942)	Mongolic, Mongolian races and peoples
(=95)	Other Asiatic races. Mongoloid peoples in general
(=951)	Sinitic races and peoples. Chinese
(=96)	Black African races and peoples. Blacks. Negroes

(=97)	North Amerindian (American Indian) peoples
(=98)	South Amerindian (American Indian) peoples
(=99)	Malayo-Polynesian and Australasian races and peoples. Malay, Indonesian etc.
(=992.32)	Polynesian peoples. Maoris etc.
(=995.1)	Australian aboriginal peoples

TABLE I(g) COMMON AUXILIARIES OF TIME

Symbol "... " (double quotation marks)

Scope. The common auxiliaries of time denote the date, point of time or range of time of a subject represented by a main UDC number. They do not indicate the date of publication of a document, which is a cataloguing matter. The basis of date indication is the Christian calendar, but non-Christian systems of time reckoning are also allowed for (in "68/69"), as well as other time concepts, e.g. seasons and geologic time. Notation. Apart from double quotation marks, the time auxiliaries employ the plus and minus signs (→ 'BC and AD' below, and the systematic table). The point is used to separate time elements of different magnitudes – not, as elsewhere in UDC, conventionally after every third digit. Only arabic numerals are used, e.g. MCMLXXXIV should be converted to "1984".

Citation order. The time auxiliary is normally cited after the main number, but since quotation marks are biterminal, they readily permit reversal of order or intercalation (→ Introduction), e.g.

"18"785.7
785"18"7 Nineteenth-century chamber
785.7"18" music

Within the auxiliary itself, the time elements are cited in order of decreasing magnitude (→ 'Dates' below).

Dates. Dates are denoted by citing the ordinary calendar notation in the order year-month-day, enclosed in quotation marks, e.g.

"1898.12.11" 11 December AD 1898

The order of magnitudes (beginning with the greatest and ending with the least) corresponds to the principle of progression from general to special. In the interests of consistency, the year is always expressed as a four-digit number, and the month and day as two-digit numbers. The non-significant places are occupied by zeros, e.g.

"0435.08.04" 4 August AD 435

Smaller time divisions. If required, the exact hour, minute or second when an event occurred may be denoted, using two-digit notations separated by points, e.g.

"1898.12.07.15.46.03" 7 December 1898
at 15 hours, 46
minutes, 3 seconds

Centuries. Decades. Centuries and decades may be denoted by 2 and 3 digits respectively, e.g.

"03" The 300s (loosely, the 4th century)
"19" The 1900s (loosely, the 20th century)
"192" The 20s (1920-1929)

Ranges of time. Ranges of several centuries, decades or years may be denoted by the initial and final figures, using the oblique stroke (consecutive extension, Table I(a), Section 2), e.g.

"04/14" The 5th to 15th centuries (the Middle Ages)
"1815/1830" The period from 1815 to 1830
"625/627" Glacial and post-glacial periods

When one of the limiting dates is undetermined, it is represented by three dots, e.g.

930.9"..."18" World history up to the (end of the) 19th century

BC and AD. Dates BC and AD may be distinguished by prefixing the plus + and minus – signs, e.g.

"–0054" 54 BC
"+0043" AD 43

This distinction may be omitted unless references to both kinds of date are likely to occur.

Historical presentation. The time auxiliaries are to be

distinguished from the form auxiliary for historical presentation (091), e.g.

53(091) General history of physics

but:

53"17" Physics in the 18th century

Systematic table

"..."

Time division in general

General time aspect of a subject, e.g.

93"..." Time, dates, periods, in history

"–"

Prechristian times. Before Christ. Dates BC (descending series)

"+"

Christian era. Dates AD (anno domini) (ascending series)

"0/2"

Dates and ranges of time (AD) in conventional Christian (Gregorian) reckoning
Denote a millennium by 1 digit, a century by 2 digits, a decade by 3 digits and a year by 4 digits

"0"

First millennium AD

"00"

First century AD

"000"

First decade of first century AD

"0001"

First year. AD 1

"01"

Second century AD

"04/14"

Fifth to fifteenth centuries AD (the Middle Ages)

→"65"

"04"

Fifth century AD

"09"

Tenth century AD

"1"

Second millennium AD

"10"

Eleventh century AD

"14"

Fifteenth century AD

"15/19"

Sixteenth to twentieth centuries AD. Modern times (post-Renaissance)

→"65"

"15"

Sixteenth century AD

"16"

Seventeenth century AD

"17"

Eighteenth century AD

"18"

Nineteenth century AD

"19"

Twentieth century AD

→"312"

"2"

Third millennium AD

→"313"

"20"

Twenty-first century AD

"3/7"

TIME DIVISIONS OTHER THAN DATES IN CHRISTIAN (GREGORIAN) RECKONING

"3"

CONVENTIONAL TIME DIVISIONS AND SUBDIVISIONS, NUMBERED, NAMED ETC.

As with dates, the point is used only to separate units of different magnitudes – which are cited in descending order, e.g.

"336.31" 31st day of any month

"347.09.15" 09 15 hours (9.15 am) on any day

General time indications

Past. Previous. Former

→"–"

Present. Now. Current

→"19"

Future. Expected. Prospective. Predicted

→"2"; "7 1"

Conventional time indications

Details by colon, place auxiliaries, A/Z etc., e.g.

"317:322" Standard summer time, e.g. British Summer Time

"317"(100) World time

"317"GMT Greenwich Mean Time

The year. Seasons and other divisions of the year

Seasons

→581.54; 591.54

Spring

Summer

Autumn (fall)

Winter

Quarters (quarter-years, trimesters)

First to fourth (last) quarter

"326"	Periods shorter than seasons but longer than months	"3682"	Permitted times or periods
"327"	Months of the year	"3683"	Excess times. Periods beyond the permitted limit
	— "332"	"3685"	Times of prohibition. Prohibited times
"327 01/.12"	First to twelfth (last month)	"37"	Time of work activity, occupation, production, daily routine
"3274"	Lunar (synodic) months	"372"	Working hours. Service hours. Time of occupation
"3275"	Months of a thirteen-period year		Starting time. Opening time. Clocking-in time
"328"	Weeks of the year	"3721"	Working hours. Business hours. Real working time. Productive hours
	— "335"	"3722"	Hours of opening to the public (of shops, administration etc.). Service hours. Trading hours
"328.01/.53"	First to fifty-third (last) week	"3723"	<i>Time for leisure facilities, during working hours</i>
"329"	Days of the year		— "3742"; "3774"
	— "336"; "342"	"3725"	Finishing time. Closing time. End of working hours. Clocking-out time
"329 001/.366"	First to three-hundred-and-sixty-sixth (last) day	"3726"	Full-time occupation
"33"	The month. Subdivisions of the month	"3727"	Part-time occupation
"332"	Individual months	"3728"	Divided time. Shared time
	— "327"	"373"	Time for maintenance, renovation, repair, household work
"322.01/ 12"	First to twelfth (last) month, e.g.	"3732"	Renovation, alteration, inspection time
	"322.01" Month 01 (January)	"3733"	Maintenance time
	"332.07" Month 07 (July)	"3735"	Repair time
	"332.12" Month 12 (December)	"3738"	Time for household work. Cleaning time
"335"	Weeks of the month. Parts of a week	"374"	Lost time. Wasted time. Idle periods
	— "328"	"3742"	Rest periods during working hours. Meal breaks. Tea, coffee breaks etc. Time spent on personal needs
"335.1/.5"	First to fifth (last) week		— "3724"; "377"; "378"
"3358"	Weekend	"3743"	Time spent on travel, transport, to and from workplace. Travelling time
"336"	Days of the month	"3744"	Time lost through internal factors at workplace
	— "329"; "342"	"3745"	Time lost through external factors: weather, natural disasters, acts of war etc.
"336.01/.31"	First to thirty-first (last) day	"3746"	Time lost through illness, injury, accidents.
"34"	Days. Hours or times of day	"3747"	Sick leave
"342"	Named days of the week		Time lost through personal reasons: parental needs, attendance at family events, weddings, funerals. Compassionate leave
	— "329"; "336"	"3748"	Time lost through wilful absenteeism, malingering, labour conflicts etc.
"342.1"	Monday	"3749"	Time lost through other causes
"342.2"	Tuesday	"375"	Time for work or availability for work outside working hours
"342.3"	Wednesday	"3752"	Overtime
"342 4"	Thursday	"3755"	Time of readiness for work or duty. Time on standby, on call, on reserve
"342.5"	Friday		Training, instruction, learning, study time.
"342.6"	Saturday	"376"	Release periods for study
"342.7"	Sunday		<i>Denote duration by colon combination with "4...", e.g.</i>
"344"	Daytime. Daylight hours		"376:430.2" Two-week study period
"3442"	Daybreak. Dawn. Sunrise period		"376:45" School year. Study year
"3443"	Morning		— 371.23; 378.143
"3445"	Midday. Noon period	"377"	Rest and recreation time. Spare time. Free time. Time outside working hours
"3447"	Afternoon		— "3724"; "3742"
"345"	Night-time. Hours of darkness or semi-darkness	"3772"	Rest time. Sleep time
"3452"	Dusk. Sunset period	"3774"	Recreation and leisure time outside working hours
"3453"	Evening	"378"	Time for daily routine, meals etc. (other than working time and leisure time)
"3455"	Middle of the night. Midnight	"3782"	Waking, rising, dressing time. Getting-up time
"3457"	The small hours, until dawn		— "3442"
"347"	Specified times of day or periods of a day, expressed in hours, minutes, seconds, e.g.	"3783"	Time of morning meal. Breakfast time
	"347.08" 08 00 hours (8 am), or the period from 08 00 to 08 59	"3785"	Time of midday meal. Lunchtime
	"347.09.15" 09 15 hours (9.15 am)	"3787"	Time of evening meal. Dinner time. Supper time
	"347.09.15/.17.30" The period from 09 15 hours (9.15 am) to 17 30 (5.30 pm)		Bedtime
	"347.14.25.10" 14 25 hours and 10 seconds (2.25 and 10 seconds pm)	"3789"	Holiday time. Vacation periods
"3475"	Decimal divisions of hours, e.g.	"38"	<i>Details by colon, e.g.</i>
	"3475.001/.009" Thousandths of hours		"38:322" Summer holidays
	"3475.01/.09" Hundredths of hours	"382"	Religious holidays
	"3475.1/.9" Tenths of hours	"383"	National and public holidays. Bank holidays
"36"	Times of peace, war, danger, emergency, difficulties		
"362"	Peacetime. Time of no danger		
"363"	Time of danger, threat		
"3633"	Time of tension, e.g. cold war		
"3635"	Time of emergency		
"364"	Wartime		
"366"	Time of recovery, relaxation, détente, diminishing danger		
"367"	Times according to use or load		
"3672"	Peak times (peak hours). Rush hour. Time of maximum use		
"3673"	Times of average load, middling use		
"3674"	Off-peak times. Slack periods. Hours of low load, little use		
"368"	Times according to permission		

"385"	Personal holidays. (Annual) leave periods. Vacation period	"421"	Duration of 10 to less than 100 days, e.g. "421.12" Duration of 12 days "421.40" Duration of 40 days
"4"	DURATION. TIME-SPAN. PERIOD. TERM. AGES AND AGE-GROUPS —'Ranges of time' (Table I(g) introductory notes); "3"; "5" <i>The subdivisions of "4" denote all kinds of duration, including periods or ages in relation to activities, processes, events, things, persons, groups, institutions, nations etc.</i> <i>The elements in the number, separated by points, denote firstly, unit of time; secondly, duration in terms of that unit; and thirdly, successively smaller time-units (mostly two digits). The oblique stroke (Table I(a)2) is used to denote time-spans or age-groups. Examples:</i> "414.03.14.46.012" Duration of 3 hours, 14 minutes, 46 seconds, 12 milliseconds "44.08" Period of 8 months "451.12.06" Period of 12 years, 6 months "463.07" Seven weeks old "465.13/.19" Age-group 13 to 19 years. Teenagers	"422"	Duration of 100 to less than 1000 days, e.g. "422.280" Duration of 280 days
		"423"	Duration of 1000 or more days —"44"; "45"
		"427"	The working day. The day conventionally defined in terms of occupied hours, e.g. "427.08" 8-hour day "427.12" 12-hour day —"37"
		"43"	Duration expressed in weeks "43" $\approx$ "42", e.g. "430.1" Duration of 1 week "430.2" Duration of 2 weeks. Fortnights "431.40" Duration of 40 weeks "432.105" Duration of 105 weeks "437.5" 5-day week "437.7" 7-day week
		"44"	Duration expressed in months "44" $\approx$ "42", e.g. "440.1" Duration of 1 month "440.3" Duration of 3 months. Quarters (quarter-years). Trimesters "440.4" Duration of 4 months "440.6" Duration of 6 months. Half-years. Semesters "441.33" Duration of 33 months "442.120" Duration of 120 months "447" Duration in 28-day months (4-week months) —"3275"
"40"	Relative duration, period, term		Duration expressed in years, centuries, millenniums, etc. —"0/2"; "67" "45" $\approx$ "42" in outline
"401"	Life, lifetime, with definite term or deadline. Durability —"46"		Duration of 1 to less than 10 years, e.g. "450.1" Duration of 1 year "450.3" Duration of 3 years. Trienniums "450.4" Duration of 4 years. Quadrenniums. Olympiads "450.5" Duration of 5 years. Quinquenniums. Lustrums
"4013"	Economic life. Durability from economic point of view	"45"	Duration of 10 to less than 100 years, e.g. "451.10" Duration of 10 years. Decenniums. Decades "451.12.06" Duration of 12 years, 6 months (12½ years) "451.35" Duration of 35 years (3½ decades) "451.99" Duration of 99 years
"4014"	Useful life. Operating life. Durability in relation to use		Duration in centuries (or 3-figure periods of years), e.g. "452.2" Duration of 2 centuries "452.250" Duration of 250 years (2½ centuries) "452.9" Duration of 9 centuries
"4017"	Lifetime duration. For life. During one's lifetime —"408"	"450"	Duration in millenniums, e.g. "453.1" Duration of 1 millennium (1000 years) "453.225" Duration of 2.25 (2¼) millenniums (2250 years)
"402"	Unlimited duration. Without definite term or deadline		Duration in tens of thousands of years Duration in hundreds of thousands of years Duration in millions of years —"67"
"403"	Short duration. Short-term		Ages and age-groups of persons, animate and inanimate things —"712"
"404"	Duration of medium length. Medium-term		Age expressed in hours and fractions of hours, days, weeks, months "461/464" $\approx$ "41/44", e.g. "461" Age of up to one day (analogous to "41") "4614.03.15" Age of 3 hours, 15 minutes ("4614" analogous to "414") "4621.11" Age of 11 days. 11 days old (cf "421")
"405"	Long duration. Long-term		
"406"	Uninterrupted duration	"451"	
"408"	Indefinite duration		
"409"	Definite duration		
"41"	Duration up to one day		
"411"	Duration in fractions of a second (of periods less than a second)		
"411.001/.009"	Duration expressed in milliseconds (of periods less than 1/100 of a second)	"452"	
"411.01/.09"	Duration expressed in centiseconds (of periods less than 1/10 of a second)		
"411.1/.9"	Duration expressed in deciseconds (of periods less than 1 second)		
"412"	Duration expressed in seconds (of periods less than 1 minute), e.g. "412.46" Duration of 46 seconds "412.46.012" Duration of 46 seconds, 12 milliseconds —"37"	"453"	
"413"	Duration expressed in minutes (of periods less than 1 hour), e.g. "413.14" Duration of 14 minutes "413.14.46.012" Duration of 14 minutes, 46 seconds, 12 milliseconds	"454"	
		"455"	
		"456"	
"414"	Duration expressed in hours, e.g. "414.03" Duration of 3 hours "414.03.14.46.012" Duration of 3 hours, 14 minutes, 46 seconds, 12 milliseconds	"46"	
		"461/464"	
"42"	Duration expressed in days		
"420"	Duration of 1 to less than 10 days, e.g. "420.1" Duration of 1 day "420.3" Duration of 3 days "420.3.12" Duration of 3 days, 12 hours "420.9" Duration of 9 days		

"461/464" (cont'd)	"4630.5" Age of 5 weeks. 5 weeks old (cf "430")	"514" (cont'd)	"514.12" Every 12 hours. Twice per day
	"4641.10" Age of 10 months. 10 months old (cf "441")	"52"	Recurring at intervals of 1 day or more (expressed in days)
"465"	Age expressed in years and decades		<i>Details by colon combination with "3", e.g.</i>
	"465" $\approx$ "451" e.g.		"52:344" Recurring during daylight hours. Every morning, afternoon etc.
	"465.02.06" Age of 2 years, 6 months. 2½ years old		"52:345" Recurring during hours of darkness. Every evening, night etc.
	"465.06" Age of 6 years. 6 years old		"52:347" Recurring at specific times of day. Every day at a certain time
	"465.06/.11" Age group 6 to 11 years	"520/523"	At intervals of a specific number of days
	"465.13/.19" Age group 13 to 19 years. Teenagers		"520/523" $\approx$ "420/423", e.g.
	—Table I(k) -053.6		"520.1" Once per day. Daily
	"465.9" Age of 90 years or more. Nonagenarians		"520.2" Every 2 days. Every other day
"467"	Age expressed in centuries (to less than 1000)		"520.3" Every 3 days. Twice per week
	"467" $\approx$ "452", e.g.		"520.9" Every 9 days
	"467.1" Age range 100 to 199 years		"521.12" Every 12 days
	"467.110" Age of 110 years 110 years old	"53"	"522.280" Every 280 days
	"467.8" Age of 800 years. 8 centuries old		Recurring at intervals of 1 week or more (expressed in weeks)
"468"	Age expressed in millenniums (to less than 10 000)		<i>Details by colon combination with "3", e.g.</i>
	"468" $\approx$ "453"		"53:342" Recurring on a particular day of the week. Every given day (every Monday, Tuesday etc.)
	—"679"		At intervals of a specific number of weeks
"469"	Age expressed in larger time units, e.g. millions of years	"530/533"	"530/533" $\approx$ "420/423" (& cf "43" subdivisions), e.g.
	—"62"; "67"		"530.1" Once per week. Weekly
"5"	PERIODICITY. FREQUENCY. RECURRENCE AT SPECIFIED INTERVALS		"530.2" Every 2 weeks. Fortnightly
	—"73/75"		"531.40" Every 40 weeks
	"5" $\approx$ "4", e.g.	"54"	Recurring at intervals of 1 month or more (expressed in months)
	"514.03.14.46" Once every 3 hours, 14 minutes, 46 seconds		<i>Details by colon combination with "3", e.g.</i>
	"530.2" Every 2 weeks. Fortnightly		"54:335" Recurring in a particular week of the month
	"551.10" Every 10 years. Decennial		"54:336" Recurring on a particular day of the month
	"56" Recurring every lifetime, generation etc. Life-cycle		At intervals of a specific number of months
"50"	Relative periodicity or frequency	"540/543"	"540/543" $\approx$ "420/423" (& cf "44" subdivisions), e.g.
	—"73"		"540.1" Once per month. Monthly
"501"	At regular or definite intervals		"540.2" Every 2 months
"502"	At irregular, indefinite intervals		"540.3" Every 3 months. Quarterly.
"503"	At short intervals. Very frequent		Trimestrial
"504"	At average, moderate, medium intervals		"540.6" Every 6 months. Half-yearly.
"505"	At long intervals. Infrequent		Semiannual
"51"	Recurring at intervals of less than a day.		"541.18" Every 18 months
	More frequent than daily		Recurring at intervals of 1 year or more (expressed in years, centuries etc.)
"511"	More frequent than once per second		<i>Details by colon combination with "3", e.g.</i>
	"511" $\approx$ "411", e.g.	"55"	"55:327" Recurring in a particular month of the year
	"511.001" Once per millisecond		"55:329" Recurring on a particular day of the year
	"511.25" Every 0.25 of a second (25 centiseconds). 4 times per second		At intervals of a specific number of years, centuries etc.
	"511.5" Every 0.5 of a second (5 deciseconds). Twice per second	"550/556"	"550/556" $\approx$ "450/456", e.g.
"512"	At intervals of 1 second or more (to less than 1 minute)		"550.1" Once per year. Yearly. Annual
	"512" $\approx$ "412", e.g.		"550.2" Every 2 years. Biennial
	"512.01" Once per second. Every second		"550.3" Every 3 years. Triennial
	"512.05" Every 5 seconds. 12 times per minute		"551.10" Every 10 years. Decennial
	"512.12" Every 12 seconds. 5 times per minute		"552.1" Once per century. Every 100 years. Centennial
	"512.30" Every 30 seconds (half-minute). Twice per minute		"552.2" Every 2 centuries. Bicentennial
"513"	At intervals of 1 minute or more (to less than 1 hour)		"553.1" Once per millenium. Every 1000 years. Millennial
	"513" $\approx$ "413", e.g.	"56"	Recurring every generation, lifetime etc. Life-cycle
	"513.02" Every 2 minutes		"56" $\approx$ "46"
	"513.15" Every 15 minutes. Quarter-hourly. 4 times per hour		
	"513.30" Every 30 minutes. Half-hourly. Twice per hour		
"514"	At intervals of 1 hour or more (to less than 1 day)		
	"514" $\approx$ "414", e.g.		
	"514.01" Once per hour. Hourly		
	"514.03" Every 3 hours. 8 times per day		

"6"	GEOLOGICAL, ARCHAEOLOGICAL AND CULTURAL TIME DIVISIONS. UNIVERSAL RECKONING: YBP (YEARS BEFORE PRESENT), MYBP (MILLION YEARS BEFORE PRESENT). OTHER NON-CHRISTIAN (NON-GREGORIAN) TIME RECKONINGS	"672"	10 billion (10 thousand million) YBP or more. The Beginning. Time of initial explosion of the Universe
"61/62"	Geological (lithological/biological/palaeoecological) time division. Aeons (eons), eras, periods etc. —551.7	"673"	Less than 10 billion to 1 billion YBP (1000 MYBP), e.g. "673.5" 5 billion YBP (5000 MYBP). Time of origin of Solar System "673.18" 1.8 billion YBP (1800 MYBP). Time of formation of Stockholm granite "673.16" 1.6 billion YBP (1600 MYBP). Time of origin of Kiruna iron ore
"611"	Precambrian (> 600 MYBP)	"674"	Less than 1 billion YBP (1000 MYBP) to 100 MYBP, e.g. "674.60/.49" 600-490 MYBP (Cambrian period) "674.35/.27" 350-270 MYBP (Carboniferous period)
"6111"	Archaean. Archaeozoic	"675"	Less than 100 MYBP to 10 MYBP, e.g. "675.70" 70 MYBP (beginning of Tertiary period) "675.30" 30 MYBP (probable time of Darwin's 'ancient member')
"6112"	Eozoic. Proterozoic. Algonkian	"676"	Less than 10 MYBP, e.g. "676.4" 4 MYBP (approximate time of transition from animal to human) "676.15/.09" 1.5-0.9 MYBP (time of Homo habilis)
"613"	Palaeozoic (600-220 MYBP)	"677"	Less than 1 MYBP to 100 000 YBP, e.g. "677.7/.4" 700 000-400 000 YBP (time of Pithecanthropus) "677.25" 250 000 YBP (time of Swanscombe Man) cf 569.9 (from 599.9, main number)
"6131"	Cambrian (600-490 MYBP)	"678"	Less than 100 000 to 10 000 YBP, e.g. "678.4" 40 000 YBP (time of late Neanderthal Man, e.g. at Mount Carmel) "678.3/.1" 30 000-10 000 YBP (time of Cro-Magnon Man) cf 569.9 (from 599.9, main number)
"6132"	Ordovician (490-430 MYBP)	"679"	Less than 10 000 YBP, e.g. "679.8" 8000 YBP "679.1" 1000 YBP <i>In practice, this section will seldom be used, since dates BC and AD may be denoted by "—9999/—0001" and "0/2"</i>
"6133"	Silurian (430-400 MYBP)	"68"	Secular time reckonings other than universal and the Christian (Gregorian) calendar <i>Denote country by Table I(e) (3/9), race or people by Table I(f) (=...) and actual dates by four-digit numbers, e.g.</i> "68(37)" Ancient Roman time reckoning 'Ab Urbe Condita' "68(37)0001" Supposed year of the foundation of Rome, 1 AUC, i.e. 753 BC "68(37)0753" 753 AUC in the Roman reckoning, i.e. AD 1 "68(=972.6)" Time reckoning of the Mayas <i>The race auxiliary (=972.6) is obtained by enclosing the language auxiliary from Table I(c) in brackets (see Table I(f) introductory notes); the language auxiliary would have been =972.6, but in this edition is listed in the form 809.726 (main number)</i>
"6134"	Devonian (400-350 MYBP)	"69"	Non-Christian (non-Gregorian) religious time reckonings "69" ≈ 29 (main number); <i>add other time auxiliaries as required and denote actual dates by four-digit numbers, e.g.</i> "694" Hindu and Buddhist time reckonings "694.3:327.02" Second month of the Buddhist year "696" Jewish religious time reckoning "696:550.1" Once every Jewish year
"6135"	Carboniferous (350-270 MYBP)		
"6136"	Permian (270-220 MYBP)		
"615"	Mesozoic (220-70 MYBP)		
"6151"	Triassic (220-180 MYBP)		
"6152"	Jurassic (180-135 MYBP)		
"6153"	Cretaceous (135-70 MYBP)		
"62"	Cenozoic (Cainozoic). Neozoic (70 MYBP - present)		
"623"	Tertiary (70-1 MYBP)		
"6231"	Palaeogene (70-25 MYBP). Palaeocene. Eocene. Oligocene		
"6235"	Neocene (25-1 MYBP). Miocene. Pliocene		
"624/627"	Pleistocene. Quaternary (1 MYBP - present)		
"625"	Glacial/Interglacial/Interstadial cycle (G/I/IS). Ice ages		
"627"	Post-glacial. Flandrian. Holocene (10 300 YBP - present)		
"63"	Archaeological, prehistoric, protohistoric periods and ages <i>Details by Table I(e) (1-92) for regions, (3/9) for countries; names by A/Z</i>		
"631/634"	Stone Age		
"631"	Eolithic period		
"632"	Palaeolithic period		
"6322"	Lower Palaeolithic		
"6323"	Middle Palaeolithic		
"6325"	Upper Palaeolithic		
"6328"	Epi-Palaeolithic		
"633"	Mesolithic period		
"634"	Neolithic period		
"6342"	Pre-pottery Neolithic		
"6343"	Early Neolithic		
"6345"	Middle Neolithic		
"6347"	Late Neolithic		
"636/637"	Copper and Bronze Ages		
"636"	Chalcolithic. Copper Age		
"637"	Bronze Age		
"6373"	Early Bronze Age		
"6375"	Middle Bronze Age		
"6377"	Late Bronze Age		
"638"	Iron Age		
"6383"	Early Iron Age		
"6385"	Middle Iron Age		
"6387"	Late Iron Age		
"639"	Protohistoric period (earliest historic period). First written records, of uncertain date <i>For later periods and records with ascertainable dates, use "—"</i>		
"65"	Periods of civilizations and cultures: antiquity, Middle Ages, modern times <i>For specified periods by date — "—", "+", "0/2"</i>		
"67/69"	Time reckonings: universal, secular, non-Christian religious		
"67"	Universal time reckoning. Before Present <i>Add digits denoting YBP (Years Before Present) or MYBP (Million Years Before Present) after point, e.g.</i> "676.4" 4 MYBP		

"69" (cont'd)	"697" Islamic time reckoning "697.0001" Year of the Hejira (flight of Mohammed from Mecca to Medina), i.e. AD 622 "697:327.09" Ramadan, ninth month of the Islamic year
"7"	PHENOMENA IN TIME. PHENOMENOLOGY OF TIME
"71"	Evolution. Development. Progression
"711"	Earliest phase. Primitive stages. Time of precursors, forerunners. Time of preparation. Preceding. Before. Pre-...
"712"	Period of existence. Existing. Actual
"7123"	Beginnings. Time of origin, generation, creation, infancy. Embryonic, incipient
"7124"	Early period. Period of growth. Immaturity. Youth
"7126"	Period of stress, upheaval, violent change. Period of struggle
"7127"	<i>Period of flowering, flourishing. Peak.</i>
"7128"	Heyday. Prime. Zenith. Maturity
"7128"	Late period. Period of ripeness, fulfilment
"7129"	Final period. Decline. Decadence. Decay. Completion. End. Ageing. Dying. Death
"713"	Aftermath. Period of successors, epigones. Subsequent. Following. Post-...
"714"	Transition period. Period of diffusion, dispersal, dissemination
"715"	Period of reactivation. Revival. Renascence. Renewal
"72"	Degree of simultaneity
"722"	Simultaneous. Synchronous. Contemporary. Coincidence in time
"724"	Not simultaneous. Asynchronous. Dysynchronous. At different times or periods
"73"	Sequence. Continuity. Successive. Consecutive
"731"	Continuous. Uninterrupted
"733"	Latent in time. Potential
"735"	Intermittent. Discontinuous. Interrupted
"737"	Normal, constant state. Stable. Invariable
"738"	Abnormal, inconstant state. Unstable. Variable
"74"	Degree of permanence
"742"	Temporary. Impermanent. Transient. Ephemeral
"746"	Permanent. Enduring. Persistent. Lasting. Perpetual. Eternal
"75"	Recurrence. Non-recurrence
"752"	Non-recurrent. Unique. Single. Once only
"756"	Recurrent. Repeated. Iterative. More than once
"76"	Direction in time
"761"	Reversible. Alterable. Non-directional in time
"762"	Irreversible. Unalterable. Directional in time
"763"	Partly alterable. Hysteresis. Delay. Retardation
"77"	Spontaneity. Of own accord. On own initiative
"78"	Indefiniteness of time. Indeterminate, uncertain, unspecified in time. Random in time

TABLE I(h) FURTHER SPECIFICATION BY NON-UDC NOTATION

Symbols * (asterisk), A/Z

Codes. The asterisk may be used, both in main UDC numbers and in the auxiliary tables, to introduce any code or notation borrowed from a recognized non-UDC source, provided that the source is clearly indicated in an accompanying note. Such borrowed notation (numeric, alphanumeric and even alphabetic codes as distinct from proper names) are separated by the asterisk from the base number, e.g.

(492*...) Netherlands: 4-figure notation from 'Nederlandse PTT Plaatsnamencode' (Netherlands post codes), e.g.

(492*1000) Amsterdam
523.45-87*3 Jupiter satellite III (Ganymede)
546.42*90 Strontium 90 (strontium isotope with atomic mass 90)
625.711(4)*E4 Road engineering: Europa highway 4 (E4)
66-97*150C Chemical technology: temperature of 150 Celsius
796.83*54kg Boxing: Bantamweight class (maximum weight 54 kg)

Proper names. To denote proper names, abbreviations (as distinct from codes) and acronyms, alpha characters may be added directly to the base number and the asterisk omitted. The whole is enclosed (where appropriate) in any auxiliary biterminal signs such as brackets, e.g.

(410.712.12STO) Northern Ireland, district of Belfast, ward of Stormont
061.5AEG Business undertakings: AEG (Allgemeine Elektrizitätsgesellschaft)
597.53Hippocampus Species Hippocampus, the sea-horse
840Moliere French literature: works of Molière
929Napoleon1 Biography: Napoleon I (Bonaparte)

It may be convenient to reduce all names to a standard-length abbreviation, as in the first two examples above, as long as this is not ambiguous.

TABLE I(i) COMMON AUXILIARIES OF POINT OF VIEW

Symbol .00... ('point nought nought')

The point-of-view auxiliaries denote the most general points of view from which a subject may be considered: concept, theory, function, activity, process etc. They are applicable throughout UDC, but are particularly useful in classes 5, 6 and 7 to express the handling of technical objects and materials. They are not to be used independently, but are suffixed directly to a main UDC number, e.g.

622 Mining
.002.5 Production plant, machinery, equipment
622.002.5 Plant, machinery, equipment in mining

Excessive use of the auxiliaries of point of view is expressly advised against. They should be used only when expression of the point-of-view facet is needed to achieve a satisfactory filing order. In many cases where an auxiliary is available, the meaning could be more precisely expressed by combination with a main number, which would better serve the purpose of differentiation, e.g.

666.3:657.471.1 Manufacturing costs in the ceramics industry

rather than the more general:

666.3.003.3 Accounting point of view of the ceramics industry

Systematic table

.000.0/.9

GENERAL APPROACH. OUTLOOK OF AUTHOR

.000.0/.9 ≈ 0/9 (main numbers), e.g.
.000.141 Philosophical outlook
.000.165 Epistemological outlook
.000.28 Christian outlook
.000.29 Other religious outlooks
.000.32 Political outlook
.000.57 Biological outlook
.000.7.01 Artistic outlook
Examples of application
008.000.284.2 Civilization, culture from the Calvinist viewpoint
327.36.000.355 Pacifist movements from the military, defence point of view

.000.0/.9 (cont'd)	342.4.000.329.61 The constitution from the viewpoint of illegal parties, movements	.001.81	Generalization. Extension of applicability
	575.8.000.297 Evolutionary theory from the Islamic (Mohammedan) viewpoint	.82	Furthering, encouragement of spread of ideas. Promotion
	613.88.000.282 Contraception from the Roman Catholic viewpoint	.83	Popularization
	65.015.000.331.881 Work study from the trade union viewpoint	.85	Training. Practice
	840-2.000.141.32 French drama discussed from an existentialist viewpoint	.86	Exchange of experiences
		.87	Obstacles to the spread of ideas
.001	PREPARATORY POINT OF VIEW. THEORETICAL ASPECT	.002	PRACTICAL POINT OF VIEW. REALIZATION. EXECUTION. PRODUCTION
.1	General idea, conception	.1	Commencement of operations. Initial phases.
.11	Concept. Definition	.2	Preliminary work. Assembly of materials and auxiliaries. Start
	→.001.4; 001.6 (main numbers)	.22	Production. Production methods
.12	Programme. Objectives. 'Targets'	.25	→.658.5
.13	Outline. Draft. Proposals	.252	Prefabrication. Processing into half-finished products
.14	Plans. Master plan	.254	→.002.62
.15	Hypotheses. Working hypotheses	.27	Ageing
.16	Problems emerging at preparatory stage	.29	Natural ageing
.18	Prognoses. Forecasts. Projections	.3	Artificial ageing
	→Table I(g) "313"; 001.18; 008.2 (main numbers)	.33	Provisional operations. Temporary expedients. Makeshift, emergency measures
.2	Implementation studies. Studies of realization, execution. Requirements, preconditions	.34	Finishing. Final machining
.23	Detail plans	.35	Materials (production aspect)
.24	Calculations	.38	→Table I(k) -03; 620.2
.25	Safety requirements	.5	Raw materials
.3	Descriptions. Identification. Classification. Comparison	.51	Auxiliary materials
	→.004.1	.54	Additives
.31	General descriptions. Explanation	.56	Substitute materials
.32	Source. Origin. Provenance	.6	Production plant, machinery, equipment
.33	Classification. Grouping. Arrangement. Systematization	.62	→.621.7/.9
.36	Comparison	.63	Primary plant. Heavy machinery
.361	Equality. Equivalence. Identity	.64	Tools. Implements
.362	Similarity. Resemblance. Analogy. Partial, limited equivalence	.645	Instruments. Precision mechanisms
.363	Inequality. Non-equivalence. Dissimilarity	.67	→.681
.365	Compatibility. Incompatibility	.68	Results of processes. Products
.37	Selection. Evaluative and quantitative selection. Positive and negative selection	.7	Intermediate products. Half-finished products
.4	Testing. Experiments	.71	→.002.22
.41	Testing before and during setting up. Trial runs. Appraisal of prototypes and samples	.72	Raw products
.42	Testing during operation. Working tests. Monitoring. Routine checks	.8	Final products. Refined products. Finished goods
.43	Testing after modification, conversion, improvement	.82	Goods with high-quality finish. De luxe models
.45	Testing under specified conditions	.84	By-products
.5	Scientific and technical investigation	.003	Waste. Residues. Refuse. Scrap
	→001.891 (main number)	.1	→.002.8
.53	Laboratory research, experiments	.12	Auxiliary operations. Ancillary work
.55	Field research, experiments	.13	Transport. Handling. Haulage. Conveyance
.57	Research, experiments with models. Simulation	.14	Mounting. Assembling. Fitting. Installation
.572	With theoretical models	.2	Utilization, exploitation of by-products, of scrap. Waste recovery, reclamation
.573	With mathematical and analogous models	.3	→.002.68
.575	With physical, material models	.5	Direct, immediate utilization
.6	Development work. Realization, application of research results	.8	Indirect utilization. Reprocessing
	→001.892 (main number)	.004	ECONOMIC AND FINANCIAL POINT OF VIEW
.63	Planning. Design. Pilot projects	.1	Economic point of view
.66	Implementation. Construction	.11	Costing. Estimates
.7	Progress. Reforms. Improvements	.12	Economic yield. Output
.71	Progress generally	.122	Value in use. Use-value
	→.008 (main number)	.124	Financial point of view
.73	Reforms. Revisions. Reorganization. Conversion. Alteration. Modification	.13	Accountancy and bookkeeping point of view
	→.004.6	.14	Details by :657...
.76	Improvements. Innovation. Modernization		Property point of view. Ownership
	→.004.69		Profit point of view. Profitability
.8	Dissemination of ideas		POINT OF VIEW OF APPLICATION, OPERATION, USE
	→001.92 (main number)		Descriptions
			→.001.3
			Detailed description, specification
			→.004.24
			Properties. Characteristics
			Advantages
			Disadvantages. Drawbacks
			Method of operation
			Use. Application. Practice. Function

.004.15	Technical efficiency. Reliability. Performance — .003.13; 006.83 (main number)	.007.2	Executive technical staff. Engineers. Works managers. Foremen. Craftsmen. Operatives — Table I(k) -057.162
.16	Losses in application, operation use		
.162	Loss of materials	.3	Executive commercial and clerical staff. Business managers. Accountants. Clerks — Table I(k) -057.3
.163	Loss of energy		
.164	Loss of working time		
.17	Capacity. Capability, e.g. of machines, of vehicles	.4	Service and caretaker staff. Stewards. House managers. Commissionaires. Janitors. Messengers. Cleaners. Charwomen. Concierges — Table I(k) -057.166
.18	Savings, economies, in application, operation, use .004.18 ≈ .004.16		
.2	Operating requirements	.6	Non-staff contributors (not permanent employees) — Table I(k) -057.13
.24	Directions for use. Instructing of operators — Table I(d) (083.131); (083.133)		
.26	Conditions of use	.62	Consultants. Outside advisers. Experts — .007.1
.28	Difficulties. Hitches		
.3	Further handling of finished products. Packing. Loading. Dispatch. Delivery	.008	ORGANIZATION POINT OF VIEW — 06.04; 65
.4	Preservation. Storage. Protection. Security		
.53	Upkeep. Care	.1	Policy. Decision making. Deliberative organs
.54	Maintenance. Servicing	.2	Direction. Directorial, administrative organs
.55	Cleaning	.3	Execution. Executive organs
.58	Supervision. Inspection	.4	Advice. Advisory, consultative organs
.6	Alteration in the course of application, operation, use — .001.73; 69.059.22; 7.025.1	.5	Planning. Planning organs
.62	Natural deterioration	.6	Control. Supervision. Supervisory organs
.622	Deterioration not due to use	.8	Membership. Partnership. Participants
.624	Deterioration due to use. Normal wear and tear	.009	RELATION POINT OF VIEW
.63	Unforeseen deterioration. Breakdown. Accidental damage	.1	Relations with superordinate bodies
.64	Defects. Faults. Flaws	.11	Cooperation
.65	Damage resulting from method of use. Misuse etc. — .004.62	.12	Rivalry
.67	Restoring. Mending. Reconditioning. Repair	.13	Legally prescribed actions
.68	Adaptation. Alteration for different application. Conversion — .001.73	.14	Moral, ethical obligations and relations — 179.9
.69	Renovation — .001.76	.15	Immoral, unethical relations
.72	Putting out of commission. De-servicing	.16	Unilateral relations. Unilateral
.74	Dismantling. Scrapping. Demolition	.17	Bilateral relations. Bilateral
.8	Utilization of used articles and materials. Re-use — .002.8; 658.567	.18	Multilateral relations. Multilateral
.005	EQUIPMENT, FITTING, INSTALLATION POINT OF VIEW — .002.5; .002.72	.2	Relations with coordinate bodies .009.2 ≈ .009.1
.006	SPACE, SITE, ACCOMMODATION POINT OF VIEW (INCLUDING OFFICIAL RESIDENCES)	.3	Relations with subordinate bodies .009.3 ≈ .009.1
.1	Accommodation for management, directorate. Boardroom etc.	.4	Material services, goods .009.4 ≈ .009.1
.2	Accommodation for research, investigation, trials, experiments. Laboratories	.5	Personal services, assistance .009.5 ≈ .009.1
.3	Accommodation for manufacture, production, construction, operation. Factory, machine room etc.	.6	Monetary, financial services .009.6 ≈ .009.1
.4	Accommodation for administration. Offices etc.	.7	Relations with customers, clients, users .009.7 ≈ .009.1
.5	Accommodation for storage and transport. Depots. Warehouses		
.6	Accommodation for protection and surveillance. Security posts. Guards', caretakers' rooms etc.		
.7	Accommodation for relaxation and welfare		
.8	Accommodation for maintenance, services, power supply, climate control (heating, ventilating) etc.		
.007	PERSONNEL POINT OF VIEW — Table I(k) -05, especially -057.1		
.1	Directorate. Top management. Board of directors. Chief scientific, technical, administrative staff. Advisory staff — .007.62; Table I(k) -057.17		

TABLE I(k) -03 COMMON AUXILIARIES OF MATERIALS

Symbol -03 ('hyphen nought three')

The -03 auxiliaries denote the materials or constituents of which objects or products are made, and are applicable through most of the main tables if the material aspect is secondary to the subject. (For certain exceptions, — notes at 264-0, 613.2, 616-03.)

The main places for materials are in most cases the sections of 66/67 dealing with their manufacture or processing. Documents about materials in general, or all or many materials from a particular point of view (e.g. dangerous goods) are classed under 620.2, materials testing under 620.1, and chemical analysis under 543.

Composite materials may be denoted by apostrophe combination, in which the apostrophe replaces -03 in the second and subsequent component numbers, e.g.

-036.674'752 Polyester and glass fibre from:

-036.674 Polyester resins

-037.52 Artificial mineral fibres. Glass fibres. Ceramic fibres

Systematic table

-03

MATERIALS

-032	NATURALLY OCCURRING MINERAL MATERIALS	-033.7	Heavy clayware. Refractories. Cermets —666.7
	—033; -034; -039.6	.71	Bricks
.1	Air (at atmospheric pressure; compressed air; rarefied air)	.76	Refractories
.2	Water (In any of its forms) ✓	.77	Chemically resistant clayware
.23	Water vapour. Steam	.78	Cermets. Ceramic-metal composites
.24	Ice. Snow		<i>Denote constituent metal by '4, derived from -034</i>
.25	Fresh water (liquid)		
.26	Salt water. Brine	-034	METALS
.27	Mineral waters (spring waters)		—032.4; -033.78
	-032.27 ≈ 553.7		-034 ≈ 669, e.g.
.3	Carbonaceous and hydrocarbon minerals		-034.1 Ferrous metals. Iron and steel
.31	Natural gas		.2/.8 Non-ferrous metals
.32	Mineral oil. Petroleum		.3 Copper. Copper alloys
.34	Peat		.4 Lead. Lead alloys
.35	Coal, including lignite and anthracite		.5 Zinc. Zinc alloys
.36	Graphite		.6 Tin. Tin alloys
.37	Bitumen (asphalt, pitch etc.)		.7 Light metals. Light-metal alloys
.38	Fossil resins and copals		.822 Uranium
.386	Ozokerite		.88 Alkali metals
.387	Amber		.89 Alkaline-earth metals
.4	Ores. Metalliferous minerals		
	—034	-035	MATERIALS OF MAINLY ORGANIC ORIGIN
.41	Iron ores. Manganese ores. Haematite. Manganite etc.	.2	—036; -037; -039.7
.42	Gold ores. Silver ores. Argentite etc.		Materials of plant (vegetable) origin
.43/.49	Other ores (as materials)	.22	<i>except wood, — -035.3</i>
	-032.43/.49 ≈ 553.43/.49	.23/.25	Grass. Herbage (fresh or dried) Turf
.5	Rock. Stone		Specific crop materials
	—033.2	.26	-035.23/.25 ≈ 633/635
	-032.5 ≈ 553.5		Stems. Twigs. Cane etc. Hay. Bamboo
.6	Earths. Non-metalliferous minerals	.27	-035.26 ≈ 677.54
	-032.6 ≈ 553.6, e.g.		Plant parts other than stems. Foliage.
	-032.61 Earth (soil) in general. Clay etc.		Flowers. Juice etc.
	-032.61'22 Earth and water. Mud. Adobe	.3	-035.27 ≈ 631.57
.8	Precious stones. Semi-precious stones	.31	Wood. Timber. Logwood etc.
	-032.8 ≈ 553.8 (except -032.89)	.32	Hardwood
.89	Other precious and semi-precious stones	.35	Softwood
	-032.89 ≈ 549	.38	Cork
		.4	Wood waste. Sawdust. Shavings. Wood-wool
		.41	Pulp. Paper. Board
-033	MANUFACTURED MINERAL-BASED MATERIALS	.42/.46	Pulp
.2	Hard-setting plasters, cements, compositions		Papers
.21	Gypsum and anhydrite plasters. Plaster of Paris	.47	-035.42/.46 ≈ 676.22/.26
.22	Lime. Quicklime. Limewash. Fine stuff	.48	Board. Cardboard. Boxboards
.24	Cement. Portland cement. High-alumina cement etc.		Building boards. Fibreboards. Hardboard.
	-033.24 ≈ 666.94	.5	Wallboard
.25	Pozzuolana and materials with similar effect	.51	Materials of animal origin. Leather. Fur etc.
	-033.25 ≈ 666.95	.511	Leather (natural leather)
.26	Hard-setting compositions. Artificial stone etc.	.513	Raw skins. Hides
	-033.26 ≈ 666.96		Soft leathers. Kid leather. Morocco leather etc.
.27	Putty and similar oil-bound compositions	.514	Hard, rigid leathers
.3	Concrete (cement concrete)	.52	Specially processed leathers. Suede.
.32	Plain concrete (mass concrete)		Parchment etc.
.33	Lightweight concretes. No-fines. Aerated concrete etc.	.53	-035.52 ≈ 675.2
.34	Special concretes. Fire-resisting concrete. Expansive concrete etc.	.54	Imitation leather. Simulated leather, of plastics etc.
.37	Reinforced concrete. Ferro-concrete	.55	Furs
.38	Prestressed concrete	.552	Hair. Feathers
.5	Glass and similar vitreous materials		Hair. Bristles etc.
.51	Ordinary rolled glass. Plate glass etc.	.554	—037.3
.52	High-quality glass. Crown glass. Flint glass. Crystal glass	.56	Feathers. Quills
.57	Enamel		Bones. Teeth. Horns. Shell. Ivory.
.58	Fused quartz. Fused basalt etc.	.57	Tortoiseshell etc.
	—037.51		-035.56 ≈ 675.86
.6	Ceramics. Pottery. Clayware in general	.6	Live animal produce as materials. Milk. Eggs etc.
	—032.61		-035.57 ≈ 637
.62	Porcelain. Semiporcelain. China	.63/.64	Chemically processed materials, mainly organic
.63	Stoneware: technical, chemical, sanitary	.66	Materials of the food and drink industry
.64	Earthenware (porous ware). Terracotta. Fireclay		-035.63/.64 ≈ 663/664
	-033.64 ≈ 666.64	.67	Organoleptics. Odorants. Flavourings
.65	Special ceramic objects for electrical purposes. Ceramic insulators	.68	—035.8
		.682	Colorants. Dyes. Inks. Paints etc.
		.683	-035.67 ≈ 667
			Distillates and residues of wood, coal etc.
			Tars. Coal tar. Wood tar
			Charcoal. Wood distillation residues

-035.684	Coke. Coal distillation residues
.8	Oils. Fats. Waxes. Gums. Natural resins
81	Fats. Natural waxes
	-035.81 $\approx$ 665.1
.82	Animal oils, fats and waxes
	-035.82 $\approx$ 665.2
.83	Vegetable oils, fats and waxes
	-035.83 $\approx$ 665.3
.84	Gums. Natural resins. Oleoresins
.841	Gums. Gum arabic. Tragacanth etc.
.842/.847	Natural resins. Oleoresins
	-035.842/.847 $\approx$ 665.944.2/.7
.848	Rosin (colophony)
.85	Essential oils. Cosmetics
	-035.85 $\approx$ 665.5
-036	MACROMOLECULAR MATERIALS.
	RUBBERS AND PLASTICS
.4	Rubber. Natural macromoleculars
	-036.4 $\approx$ 678.4
.5	Plastics in general, especially semisynthetics
	—-037.4
	-036.5 $\approx$ 678.5
6/.8	Synthetic plastics, resins, rubbers etc.
.6	Polycondensates (condensation resins, fibres). Polyesters. Polyamides. Nylon etc.
	-036.6 $\approx$ 678.6
.7	Polymerizates (addition resins and copolymers). Polyethylene. Polyvinyls. Polystyrene etc.
	-036.7 $\approx$ 678.7
.8	Mixed polymerizate-polycondensates. Other macromoleculars. Silicones
	-036.8 $\approx$ 678.8
-037	TEXTILES. FIBRES. YARNS. FABRICS.
	CLOTH
	-037.1/.3 $\approx$ 677.1/.3, e.g.
	-037.1 Vegetable fibres. Bast. Flax. Hemp. Jute. Sisal
	.2 Vegetable seed hairs. Cotton. Kapok
	.3 Animal fibres and hairs. Wool. Silk etc.
	—-035.55
.4	Man-made fibres. Chemical fibres
	—-036
.45	Semisynthetic fibres (cellulosic fibres etc.)
	Rayon. Artificial silk
.47	Synthetic fibres
.474	Polyester fibres and fabrics
.475	Polyamide fibres and fabrics. Nylon fibres
.477	Polyethylene fibres
5	Mineral, metal and other fibres
	-037.5 $\approx$ 677.5, e.g.
	-037.51 Natural mineral fibres. Quartz fibres. Asbestos fibres
	.52 Artificial mineral fibres. Glass fibres. Ceramic fibres
	.53 Metal fibres
.6	Mixed fabrics. Special fabrics, woven, knitted etc.
.63	Felts, batts etc.
.65	Gauze. Lace. Other openwork fabrics
.7	Cordage. Trimmage. Fancy fabrics
.71	Cordage. Rope. Twine. String
.75	Ribbon. Tape. Webbing
.8	Specially treated and finished textiles
.86	Proofed, coated or bonded fabrics
.87	Textile-base compositions. Linoleum
-039	OTHER MATERIALS
.6	Inorganic chemicals and compounds (except those at -032/-034)
	-039.6 $\approx$ 546
.7	Organic chemicals and compounds (except those at -035/-036)
	-039.7 $\approx$ 547

TABLE I(k) -05 COMMON AUXILIARIES OF PERSONS AND PERSONAL CHARACTERISTICS

Symbol -05 ('hyphen nought five')

The -05 auxiliaries denote the persons concerned or their characteristics, but not things or disciplines according to personal application. They are applicable throughout the main tables, except under 264, if the personal aspect is secondary to the subject. (— note at 264-0.)

If the main table for a particular subject provides no direct subdivision or special auxiliary for the personal aspect, -05 itself may be used to denote this, e.g.

294.3 Buddhism

294.3-05 Buddhists

The roles of agent and target should usually be distinguished by -051 or -052, e.g.

324 Elections

324-051 Electors, voters

324-052 Elected representatives

with any further personal characteristics denoted by adding the appropriate subdivision of -053/-058, e.g.

324-052-055.2 Female elected representatives

If the main tables already provide a place for the personal aspect, then the subdivisions of -053/-058 may be added directly to this, e.g.

070.42-057.13 Freelance journalists

347.96-055.2 Female lawyers

616-083-055.1 Male nurses

As with all common auxiliaries, the subdivisions of -05 may be combined with each other, or other auxiliaries, e.g.

647-053.6-055.2 Female adolescent domestic staff

78.071-056.45(=924) Jewish musical prodigies

Systematic table

-05

PERSONS CONCERNED. PERSONAL CHARACTERISTICS

-051

PERSONS AS AGENTS, DOERS, PRACTITIONERS (STUDYING, MAKING, SERVING ETC.), E.G.

616-051 Medical staff: doctors, nurses etc.

929-051 Biographers

-052

PERSONS AS TARGETS, CLIENTS, USERS (STUDIED, SERVED ETC.), E.G.

616-052 Medical patients

929-052 Biographees

-053

PERSONS ACCORDING TO AGE OR AGE-GROUPS

Details by "4", Table I(g)

.1 Human beings, born or unborn, living or dead

.12 Ovum

.13 Embryo (foetus)

.15 Alive. Living persons

.18 Dead. Deceased persons

.2 Children and infants (in general)

—-055.15; -055.25; -055.62

.3 Infants. Babies

.31 New-born babies

.32 Premature babies

.4 Pre-school-age children. Toddlers

.5 School-age children (in general)

—-057.87

.6 Young persons. Adolescents. Teenagers

—-057.87

.66 Persons in early adolescence

.67 Persons in late adolescence

.8 Adults. Grown-ups

.81 Young adults. Persons in prime of life

Details by "465", Table I(g), e.g.

-053.81"465.2" Persons in their twenties

.85 Persons in middle age (in general)

.87 Persons in climacteric (change of life)

.88 Persons in late middle age (troisième age)

000595

-053.9	Old persons. Persons in old age	-056	PERSONS ACCORDING TO CONSTITUTION, HEALTH, DISPOSITION, HEREDITARY OR OTHER TRAITS, E.G.
-054	PERSONS ACCORDING TO ETHNIC CHARACTERISTICS, NATIONALITY, CITIZENSHIP ETC. E.G.	.1	-056.265-053.2 Injured children
	-054(23) Mountain dwellers. Hill folk	.12	Persons according to general constitution, disposition or character
	-054(=9) Coloured persons	.13	Passive persons. Unreactive. Inactive.
	-054.57(=083) Members of developing national minorities	.14	Neutral. Indifferent. Placid. Lazy. Apathetic
.4	Residents (national or non-national)	.15	Moderately, normally active persons.
.5	Nationals. Citizens of a country	.153	Reactive. Concerned. Interested
.51	Nationals by birth	.155	Intensively, abnormally, excessively active persons. Over-reactive. Energetic.
.52	Naturalized citizens, e.g.	.157	Hyperergic. Enthusiasts. Fanatics. Zealots
	-054.52-058.833 Naturalized by marriage	.17	Personal bias
.57	Members of national minorities	.172	—061.9
.6	Non-nationals. Foreigners. Aliens	.173	Positive bias. Pro-... For... In favour of...
.62	Resident aliens. Foreign settlers	.175	Supporters
	—057.56	.2	Neutral. Uncommitted. Neither for nor against
.64	Enemy aliens	.22	Negative bias. Anti-... Against... Opposed to...
.65	Prisoners of war	.23	Persons according to dextrality or sinistrality
	—058.56	.231	Right-handed persons. Dextrals
.68	Non-residents. Visiting foreigners	.232	Left-handed persons. Sinistrals
	—057.68	.233	Ambidextrous persons
.7	Expatriates. Exiles. Repatriates. Migrants. Stateless persons	.234	Persons according to physical state and health
.72	Voluntary migrants. Immigrants. Emigrants	.235	Physically healthy persons
.73	Refugees. Evacuees. Displaced persons	.24	Persons according to body size, height, stature
.74	Compulsory exiles. Banned persons (proscribed from entry). Expellees. Deportees	.25	Very small, very short persons. Dwarfs
.75	Repatriates	.253	Small persons. Short persons
.78	Stateless persons. Apatriates	.255	Persons of average size or height
-055	PERSONS ACCORDING TO SEX AND KINSHIP	.257	Big persons. Tall persons
	-055.2-053.87 Wives at climacteric	.26	Very big, very tall persons. Giants
.1/.3	Persons according to sex	.262	Physically ill persons. The sick. Invalids.
.1	Male persons. Men	.263	Convalescents
.15	Boys	.264	Persons according to nourishment (nutritional state) or body weight
.2	Female persons. Women	.265	Underweight persons. Weakened, wasted, debilitated by hunger etc. Starved.
.25	Girls	.266	Under-nourished. Suffering from malnutrition.
.26	Women as child-bearers. Pregnant women. Expectant mothers. Nursing mothers	.268	Hypotrophic
.3	Persons with uncertain, ambivalent or other special sexual, psychosexual or sociosexual characteristics. Asexuals. Bisexuals. Intersexuals. Homosexuals. Lesbians. Transsexuals. Transvestites. Sexual perverts. Sadists. Masochists	.29	Persons of average weight. Normally nourished. Eutrophic
.5/.7	Persons according to family or other kinship relation	.3	Overweight persons. Over-nourished. Fat. Obese. Hypertrophic
.5	Persons in parental or ascendant relation. Ancestors. Forebears	.31	Physically handicapped persons. Disabled persons
.52	Parents	.313	—058.65
	-055.52-055.1 Fathers	.315	Blind persons
	-055.2 Mothers	.317	Deaf persons. Dumb persons. Deaf-mutes
.53	Grandparents. Great-grandparents. Further forbears in direct ascendant line	.32	Persons with speech impediments.
.54	Persons in indirect ascendant relation. Uncles. Aunts. Great-uncles. Great-aunts etc.	.34	Speech-defective persons. Stammerers. Stutterers etc.
.6	Persons in filial or descendant relation	.36	Temporarily disabled persons. Injured. Wounded (curably)
.62	Offspring. Children of... Filial	.37	Permanently disabled persons. Cripples
	-055.62-055.1 Sons	.4	Totally disabled persons
	-055.2 Daughters	.42	Motor-handicapped persons
.63	Grandchildren. Great-grandchildren. Further descendants in direct line	.43	Persons according to intelligence and mental or psychological state
.64	Persons in indirect descendant relation. Nephews. Nieces. Great nephews. Great nieces etc.		Persons according to intelligence
.7	Persons in collateral relation		Denote level of intelligence either by direct subdivisions below or by adding intelligence quotient (IQ) after asterisk, e.g.
.71	Persons as siblings		-056.31*IQ105 Persons with IQ of 105
	-055.71-055.1 Brothers		Persons of low intelligence
	-055.2 Sisters		Persons of normal, average intelligence
.72	Persons in collateral relation of the same generation, or in more distant collateral relation. Cousins		Persons of high intelligence
.76	Persons as twins, triplets etc., or as one of twins, triplets etc.		Mentally healthy persons
			Mentally ill (mentally sick) persons
			Mentally handicapped, retarded persons
			Mentally defective persons
			Persons according to temperament, predisposition
			Accident-prone (injury-prone) persons
			Disease-prone (disorder-prone) persons.
			Persons with diathesis. Hypersensitive persons. Allergic persons

-056.45	Gifted persons. Precocious persons.	-057 3	Clerical, administrative workers. Clerks.
	Geniuses. Prodigies		Office staff
.47	Maladjusted persons. Misfits. Eccentrics.		—Table I(i) .007.3
	Cranks	32	Clerical and related workers in commerce and industry
.48	Introverts. Extraverts		Sales and service workers
.7	Persons according to their inherited characteristics, constitution	.33	Civil servants
.8	Persons according to their acquired habits, behaviour, attitude	.36	Persons in military service. Servicemen.
.82	Persons characterized by particular daily, routine habits. Early risers, late risers. Active in daytime, nighttime Indoor, outdoor types	.4	Persons in the police. Persons in the fire service etc.
83	Persons with persistent cravings. Addicts: alcohol, tobacco, narcotics etc.	.5	Professional or academic workers (except those in -057.3)
.84	Vegetarians		—331.021.3; 331.021.822
.85	Total abstainers from stimulants. Teetotalers		Persons in relation to workplace, site of employment. Persons in relation to the enterprise
.87	Persons well-disposed to their fellows. Sociable, friendly, sympathetic types. Benefactors. Humanitarians. Philanthropists	.51	Persons working within the enterprise
	Persons ill-disposed to their fellows. Unsociable, unfriendly, cruel types. Misanthropes. Bullies etc.	.52	Persons working outside the enterprise.
			Home workers. Out-workers. Travelling workers
		.56	—334.742
-057	PERSONS ACCORDING TO OCCUPATION, WORK, LIVELIHOOD, EDUCATION		Persons working outside their home country. Migrant workers. 'Guest workers' (Gastarbeiter) in German Federal Republic
	For specific occupations — main UDC numbers and -051 or -052, e.g.	.57	—054.62
	658.87-051 Shopkeepers. Retailers		Members of production or service cooperatives
	-052 Customers. Clients	.6	—334
	730-051 Sculptors		Persons according to domicile and its relation to work or other activity
	77-051 Photographers	.61	Persons living at or near their workplace
	-052 Persons photographed.	.62	Persons travelling to and from workplace.
	Photographic models		Commuters
	929-051 Biographers		—331.048.5
	-052 Biographees	.65	Persons as occupants and managers of their homes. Householders (owners or tenants). Housewives
.1	Persons according to work and employment (in general)		Persons without fixed abode. Persons with mobile dwellings and way of life. Nomads.
	—Table I(i) .007; 331	.66	Itinerants. Gipsies (according to way of life)
11	Persons according to employment conditions		For gipsies as race, use Table I(f)
112	Persons in full-time employment		(=914.99), deriving from Table I(c)
.113	Persons in part-time employment. Half-day workers etc.		=914.99
.114	Persons in multiple employment. Persons with several jobs. Moonlighters		—058.51
	—331.218	.68	Tourists. Travellers in general. Passengers.
.115	Persons in temporary employment. 'Temps'. Relief workers. Substitute staff		Persons travelling for reasons other than work
.117	Persons in casual employment. Jobbing workers	.7	—054.68
.118	Persons in illicit or undeclared employment. Persons in the black economy		Persons according to income sources or insurance
.13	Self-employed persons. Independent workers. Free-lance workers	.71/.77	—058.3
	—Table I(i) .007.6	.71	Persons according to income sources
.15	Employers in general	.73	Unpaid persons. Persons in honorary positions
.16	Employees in general	.75	Paid persons. Salaried persons
	—331.021		Pensioners. Old-age pensioners. Pensioners retired because of sickness, accident, injury
.162	Executives	.77	Persons with other income sources
	—Table I(i) .007.2/.3; 331.021.6	.772	Persons with independent or private means, e.g. from shareholdings, property, legacies
.164	Auxiliaries. Assistants		Persons with income from social assistance
.166	Ancillary staff (employees not engaged in the primary work process). Service staff, e.g. office cleaners	.775	Persons according to type of insurance
	—Table I(i) .007.4	.78	Compulsorily, legally insured persons
.17	Managers in general. The management	.782	Voluntarily insured persons
	—Table I(i) .007; 331.021.5	.786	Persons according to education, training, experience
.173	Lower management	.8	Illiterates
.175	Middle management	.81	Uneducated, untrained persons
.177	Higher management. Top management	.82	Self-educated, self-taught, self-trained persons. Autodidacts. Self-made men in general
.18	Persons officially on half-pay	.83	Persons with school education only
.19	Unemployed persons. Jobless, out-of-work persons		Persons with higher education (university or equivalent)
.2	Manual workers	.84	Vocationally or professionally trained or qualified persons. Architects, accountants etc. Technical experts
	—331.021.821	.85	Students. Schoolchildren. Pupils. Trainees
.21	Specialized workers. Skilled workers.	.86	Schoolchildren. Schoolboys. Schoolgirls
	Craftsmen		
.22	Unskilled workers		
.23	Workers in training. Apprentice workers	.87	
		.874	

-057.875	Students in higher education (university or equivalent)	-058.51	Isolated, drifting persons. Mendicants. Beggars. Vagabonds. Vagrants. Tramps. Derelicts. Down-and-outs
.876	Vocational or professional trainees	.52	Adventurers. Fortune-hunters
.88	Persons with incomplete, unfinished study or training, at any level. Drop-outs	.53	Persons shunning the established order. Underground. Hippies. Social drop-outs
-058	PERSONS ACCORDING TO SOCIAL CLASS, CIVIL STATUS	.55	Criminal persons. Underworld. Delinquents. Offenders against public order. Murderers. Criminals of circumstance, e.g. war criminals
.1	Persons according to social class or status		Prisoners. Detainees. Convicts
.12	Upper-class persons	.56	→-054.65
.13	Middle-class persons		Civil detainees. Internees. Political prisoners, e.g.
.14	Lower-class persons	.566	-058.566"362" Civil detainees in peacetime
.17	Persons in marginal classes. Borderline cases as to class		"364" Civil detainees in wartime
.18	Classless persons (not belonging to any social class)		Reformed, reclassified persons. Rehabilitated prisoners etc. Ex..., e.g.
.2	Persons of particular classes according to ownership of means of production	.57	-058.57-054.65 Ex-prisoners-of-war
.21	Persons of particular levels in slave-owning society		-058.55 Ex-criminals
.212	Slave-owners		-058.566 Ex-detainees.
.214	Slaves		Ex-political-prisoners
.219	Persons of other levels in slave-owning society	.6	Victims of circumstances
.22	Persons of particular levels in feudal society	.64	Victims of social or political circumstances, e.g.
.222	Feudal lords		-058.64-054.74 Persons banned or deported for social or political reasons
.224	Wholly dependent peasants. Vassals. Serfs		War victims, e.g.
.229	Persons of other levels in feudal society		-058.65-056.26 War-disabled
.23	Persons of particular levels in capitalist society	.65	Victims of disasters, e.g.
.232	Members of the bourgeoisie	.66	550.348.43-058.66 Earthquake victims
.2	Members of the wealthy bourgeoisie, upper-middle classes. Monopoly and non-monopoly bourgeoisie		656.08-058.66 Victims of traffic accidents.
.3	Great landowners	.68	Road accident victims
.5	Members of the petty-bourgeoisie, lower-middle classes. Tradesmen	.7	Victims of loneliness, neglect, ill-treatment
.6	Peasants. Farmers	.8	Dependent persons. Dependants
.234	Members of the proletariat, working classes.		Persons according to marriage, family or other civil status
.2	Workers in production, services	.83	→-055.5/.7
.4	Industrial workers		Persons according to marital status or related civil status
.9	Agricultural workers	.832	Single, unmarried persons. Bachelors. Spinsters
.237	Workers in other kinds of production or services	.833	Married persons. Husbands. Wives. Spouses
.239	Members of the capitalist intelligentsia	.835	Widowed persons. Widowers. Widows
.24	Persons of other levels in capitalist society	.836	Divorced or separated persons
.243	Persons of particular levels in socialist society	.2	Divorced persons. Divorcees. Legally separated persons
.2	Members of the working class	.6	Persons separated de facto. Married persons living apart
.4	Industrial workers	.837	Unmarried persons living together.
.9	Agricultural workers		Cohabitants
.244	Workers in other kinds of production	.839	Bigamists. Polygamists
.2	Peasants	.85	Persons with quasi-parental relationships
.6	Members of the agricultural cooperatives		→-055.5
.247	Independent peasants. Farmers	.854	Step-parents, i.e.
.249	Members of the socialist intelligentsia		-058.854-055.1 Stepfathers
.3	Persons of other levels in socialist society		-055.2 Stepmothers
	Persons according to economic categories (means, security, other rights)	.855	Adoptive parents
	→-057.7	.856	Foster-parents
.31	Persons according to specific income levels	.86	Persons with quasi-filial relationships
.32	Persons with high income. Persons of great means. Wealthy persons. The rich	.862	→-055.6
.33	Persons with middling income, average means	.864	Orphans
.34	Persons with low income, little means. Destitutes		Step-children, i.e.
.5	Persons belonging to marginal social-economic categories. Fringe groups	.865	-058.864-055.1 Stepsons
		.866	-055.2 Stepdaughters
		.868	Adopted children
			Foster-children
			Natural children. Illegitimate children. Bastard children

AUXILIARY TABLES

SECTION II SPECIAL AUXILIARY SUBDIVISIONS

The special auxiliary subdivisions -1/-9, .01/.09 and '1/'9 are limited in their scope, and each series is used to denote recurrent concepts in that part of the main tables for which it is designed and scheduled, or in certain other sections where specifically indicated. Thus, unlike the common auxiliary signs and subdivisions of Section I, in the special auxiliaries the same notation may be used with different meanings in different parts of the main tables, e.g. -3 at 54, 62 and 82; .02 at 06, 331, 53, 54, 58, 621.3, 629.1, 656, 66, 677, 69 and 7. It always, however, denotes the same recurrent concept at the main number where it is listed or at the subdivisions of that number.

A Three kinds of notation are in use as special auxiliary subdivisions:

(a) The hyphen series -1/-9 (but not -0, — Table I(k)) are mainly analytical or differentiative in function, serving to indicate elements, components, properties and other details of the subject denoted by the main number to which they apply. Examples: the series 62-1/-9, applicable (with minor exceptions) throughout 62/69, denoting engineering and mechanical details; the series 82-1/-9, applicable throughout 82/89, denoting literary forms (poetry, drama, novels etc.).

(b) The point-nought series .01/.09 (but not .00, — Table I(i)) are more diversely used and often developed in much more detail than -1/-9, providing sets and subsets of recurrent concepts such as aspect studies, activities, processes, operations, plant and equipment.

Examples: 3.07/.08, applicable throughout 31/39 and developed in fuller detail under 35; 7.01/.09, applicable (with minor exceptions) throughout 71/79; series at many two-digit divisions (and lower-level) of class 2, e.g. 22, 265, 271, class 5, e.g. 528, 53, 54, 556, 57/59, class 8 and class 9; and numerous series in the divisions of class 6.

(c) The apostrophe series '1/'9, unlike -1/-9 and most of .01/.09, are mainly synthetic or integrative in function and denote compound subjects by compound notation. They are sometimes fully listed, but elsewhere are derived from main

numbers by parallel division.

Examples: subdivisions of 329 'Political parties', e.g.

329.17'23'12

Nationalist-republican-liberal parties

(synthesized from 329.17, 329.23 and 329.12); subdivisions of 547 'Organic chemistry', e.g. 547'11/'19 (derived from 546.1/.9), 547'2/'8 (derived from 547.2/.8); subdivisions of 669 'Metallurgy', e.g.

669.35'5'6 Copper-zinc-tin alloys

(synthesized from 669.35, 669.5 and 669.6); and the listed subdivisions of 903'J 'Prehistoric culture forms'.

B. Special auxiliaries may be used either singly or in combination with other auxiliaries, thus:

- citing a single auxiliary, e.g.

329.052 Opposition parties

329.12'23 Liberal-republican parties

547.29-41 Reagents for organic acids

547.29.07 Preparation of organic acids

547.29'26 Acid-alcohol esters

882-31 Russian novels

882.09 Criticism of Russian literature

- citing several auxiliaries with the same symbol (a homogeneous chain), e.g.

329.053.052 Opposition splinter parties

329.12'13'23

Liberal-progressive-republican parties

62-242-436 Engine pistons - spherical

678.6-944-404 Polycondensates -

halogenated - liquid

678.6.067.029.4 Polycondensate

mouldings, joining

- citing several auxiliaries with different symbols (a heterogeneous chain), e.g.

329.12'23.052 Liberal-republican opposition parties

547.29'26.07-41 Acid-alcohol ester

preparation: reagents

882-31.09 Russian novels: criticism

0 GENERALITIES. SCIENCE AND KNOWLEDGE. ORGANIZATION. INFORMATION. DOCUMENTATION. LIBRARIANSHIP. INSTITUTIONS. PUBLICATIONS

00	PROLEGOMENA. FUNDAMENTALS OF KNOWLEDGE AND CULTURE —008; 130.2; 165	001.891	Scientific research, investigation. Research methods —Table I(i).001.5; 069.8; 65.012.1
		.892	Development —Table I(i).001.6; 608.1
001	SCIENCE AND KNOWLEDGE IN GENERAL. ORGANIZATION OF INTELLECTUAL WORK, E.G. 001::061.1(100) International scientific organizations, e.g. Unesco	.893 .9	Control. Supervision Dissemination of knowledge. Fact, fancy, falsification Dissemination of factual knowledge. Popularization of science —001.38
.1	Concepts of science and knowledge —165	.92	Reported phenomena not yet fully explained, e.g. 001.94(410.518NES) Loch Ness Monster 001.94UFO Unidentified flying objects (UFOs). 'Flying saucers'
.11	Definition of concepts. Nature, purpose, essence of knowledge	.94	Deliberate scientific deceptions and hoaxes, e.g. 001.95:569.9(410.126PIL) Eoanthropus. Dawsonii (Piltdown Man) —Table I(d)089.5)
.12	Character of the objects examined by knowledge. Realities. Phenomena. Facts. Circumstances	.95	Pseudo-scientific prophecies, fancies, e.g. 'death ray' —133; 159.961; 398.4; 82-994
.18	Future of knowledge. Prophecy. Prediction. Forecasting —008.2	.98	Falsification of science. False doctrines, fallacies (due to insufficient knowledge, bigotry, excessive zeal etc.)
.19	Knowledge and the unknowable. Limits of knowledge	002	DOCUMENTATION. BOOKS. WRITINGS. AUTHORSHIP —003; 01; 02; 651.5; 659.2
.2	Relations between individual disciplines —001.8; 005; 025.4; 168.2	.2	Total literary output (of persons, on subjects, of countries etc.), e.g. 002.2(494):31 Statistics of literary output in Switzerland
.3	Value, significance, utilization, status, defence and appreciation of science	.6	Documentation centres —026; 061.66 002.6.01/.08 ≈ 06.01/.08
.35	Criticisms of science. Objections to science	.61	International documentation centres
.38	Advancement, promotion of science	.63	National documentation centres
.4	Specialist terminology. Scientific nomenclature —Table I(d)083.72; 003.62	.66	Documentation centres of firms, institutions, factories, public authorities etc.
.5	Scientific theories, hypotheses, systems. Tracing of relationships between scientific facts. Comparative presentation —162	003	SEMIOTICS, SYNTACTICS, SEMANTICS IN GENERAL. WRITING. SCRIPTS. NOTATIONS. SIGNS. SYMBOLS —091; 159.946.4; 651.9; 744.9; 801
.6	Scientific laws. Ideal cases. Exceptions —113		Special auxiliary subdivisions
.8	Methodology. General study of method. Technical and scientific procedures in study, research, discussion. Analysis and synthesis	003.01	Origins, precursors of writing. Early writing, e.g. on rock, bark
.81	Technique of intellectual work	.02	Emergence of writing, e.g. among primitive peoples
.811	General. Rules for citations, quotations, bibliographic references. Format of stationery	.03	Relation of writing to speech
.812	Working materials —003.5; 65.06; 686.8	.034	Transferred scripts. Script conversion of entire languages, e.g. of Turkish to roman script
.813	Cuttings —Table I(d)04; 025.17; 04	.035	Conversion of scripts. Transliteration. Romanization. Cyrillization etc.
.814	Assembling of references. Contents lists. Extracts. Summaries. Preliminary drafts, rough copy for literary work. Research —019.9; 025.32	.05	Phonetic script
.815	Production of indexes. Author indexes. Subject indexes —014.5; 019.96; 025.347	.052	Means of producing script
.816	Work concerned with printing and publication. Author's directions to compositor or printer. Manuscripts. Proofs —655.253; 655.52; 82.083	.054	With the hand
.817	Lecture work. Compilation and arrangement of lectures, dissertations —04; 069.1; 82-5; 82.085	.07	By mechanical means: typewriters, stamps, printing press etc.
.818	Evaluation of results. Writing up. Presentation of information. Technique of report writing —06.055.1	.08	Uses of writing
.83	Intellectual cooperation	.081	Characteristics of scripts
.85	Scientific criticism	.082	Formation of characters. Capital letters (majuscules). Small letters (minuscules).
.86	Concordances —014.5; 22.03	.083	Combinations, digraphs, ligatures
.87	Case studies (as a subject), their compilation and use	.084	Diacritics. Accents. Diaeresis etc.
.89	Organization of science and scientific work —005; 007; 351.854	.085	Abbreviations. Logograms. Sigla
		.086	Word formation
			Sentence formation
			Punctuation

003 087	Direction of script. Horizontal, vertical script etc. Left to right. Right to left. Boustrophedon	006	STANDARDIZATION AND STANDARDS INCLUDING SPECIFICATIONS, CODES OF PRACTICE, RECOMMENDATIONS ETC. —Table I(d)(083); 658.516
Principal divisions		Special auxiliary subdivisions	
003.2	Kinds of script in general	006.01	Theory, principles, fundamentals, aims of standardization
.21	Picture scripts. Pictograms. Pictography	.02	Special aspects of standardization and standards: technical, legal, economic etc.
.22	Syllabic scripts. Syllabaries	.03	Standardization and standards according to authority and competence of standardizing body. International, regional, national, company standards etc.
.23	Alphabetic scripts	.05	Creation of standards. Stages of standardization work. Drafting of standards. Evaluation of comments. Publication. Amendment. Revision
.24	Braille	.06	Methods of introduction of standards. Implementation. Adoption. Use of standards. Certification and marking
.25	Morse code	.067	Maintaining conformity with, and level of, standards. Control and review of validity of older standards. Revision proposals
.26	Cryptography	.07	Effects, influences of standardization and standards. Effect on economy, trade, manufacturer, consumer
3	Individual scripts —802/809	Principal divisions	
31	Writing and alternatives to writing among primitive peoples	006 3	Standards in general. Standards according to their nature and validity. National, international standards. Legally enforceable standards etc.
.312	Forerunners. Signs. Marks. Notched sticks. Knotted cords. Quipu. Prongs. Wampum belts	.4	Standards according to their status and scope. Fundamental, general, specialized standards
.313	Artificial scripts of primitive peoples. Bamum, Cherokee, Cree scripts etc.	.5	Standards according to degree of standardization. Comprehensive, skeleton, abridged standards
.314	Pictographic scripts. Petroglyphs	.71.8	Standards according to content
.315	Prehistoric scripts	.72	Communication standards. Standards for nomenclature, terminology, definitions, symbols, units, numerals, documentation, classification, drawing, bibliography, correspondence etc.
.32	Ideographic scripts	.73	Grading standards. Criteria for evaluating various objects, commercial categories etc. by quality —006.83
.321	Scripts of ancient American cultures. Maya script etc.	.74	Type standards. Standards for classing objects according to type, size, similar characteristics
.322	Ancient Egyptian scripts. Hieroglyphic. Hieratic. Demotic	.76	Standards for planning. Codes of practice for design and calculation. Regulations for design and construction
.323	Cuneiform scripts. Sumerian, Hittite cuneiforms etc.	.77	Standards for design and construction, laying down details of construction, design of an object and of its parts
.324	Scripts of oriental cultures. Chinese, Japanese scripts etc.	.78	Dimensional standards. Standardization of dimensions of objects and of their parts
325	Hittite picture scripts	.82	Standards for materials. Standardization of physical, chemical, technological properties and composition of materials
.33	Oriental alphabetic scripts	.83	Standards for quality. Performance standards. Standards for reliability, durability of products —006.73
.331	Origin of the alphabet	.85	Standards for processes, operations. Standardization of work, manufacturing processes
.332	Semitic scripts. Phoenician etc.	.86	Standards for testing. Standardization of techniques of inspection and measurement
.4	Hebrew and Canaanitic scripts	.87	Standards for delivery and service. Standardization of conditions of delivery, packing etc. Conditions of contract
5	Arabic (north Arabic) scripts	.88	Safety standards. Standards for accident prevention, e.g. standards for protection against ionizing radiation —614.8
.333	Iranian scripts. Pahlavi script etc.		
.334	Caucasian scripts. Georgian script etc.		
.335	Central and north Asiatic scripts. Uigur, Mongolian scripts etc.		
.336	Indic scripts. Nagari, Devanagari etc.		
.34	Occidental alphabetic scripts. European scripts		
.341	Greek script		
.344	Latin script and its derivatives. Roman scripts. Gothic (blackletter) scripts. Italic scripts		
345	Runes		
.346	Oghams		
.349	Slavic scripts. Glagolitic script. Cyrillic script		
.35	Numeral systems		
.351	Greek numerals		
.352	Roman numerals		
.353	Arabic (Indian) numerals		
.5	Writing materials and equipment —001.812; 003.05; 686.8		
.51	Writing surfaces. Stone, wax, papyrus, paper etc. —Table I(k)-03		
.57	Writing media. Inks, chalks, crayons, pencils —667.4/.5		
.58	Writing implements. Styluses, brushes, quills, nibs —686.863		
.6	Other kinds of graphic representation of thought —Table I(d)(084.2/.3); 084; 7.045		
.62	Signs. Notations. Symbols. Ideograms (except scripts)		
.63	Diagrams. Cartograms. Schemata		
.64	Monograms. Anagrams. Chronograms. Signature as mark of origin (in porcelain, carpets, tapestries etc.)		
005	STUDY OF ORGANIZATION. METHODOLOGY. ANALYSIS. SYNTHESIS. CLASSIFICATION AND TAXONOMY: THEORY, PRINCIPLES. SYSTEMATIZATION IN GENERAL —001.8; 025.4; 168.2; 65.01	007	ACTIVITY AND ORGANIZING. INFORMATION. COMMUNICATION AND

007 (cont'd)	CONTROL THEORY GENERALLY (CYBERNETICS). 'HUMAN ENGINEERING' —519.6; 62-5; 621.316.7; 621.391; 65.01; 681.3; 681.5	017	Catalogues in general. Subject catalogues. Classified or systematic catalogues. Alphabetic subject catalogues
.2	Variability, physical configuration and state. Transformation of state		Special auxiliary subdivisions (applicable throughout 017/019)
.3	Directives, programming and physical organization of variability	017.091	Location indexes. Shelf lists
.5	Self-acting systems and controlled devices	.092	Accessions catalogues
.51	With human operators as links		Principal divisions
.52	Without human operators. Automata. Robots. Artificial intelligence	017.1	Catalogues of non-private libraries.
008	CIVILIZATION. CULTURE. PROGRESS —17.023.36	.11	Catalogues of public libraries (municipal libraries), national libraries, provincial libraries, libraries of public bodies, associations, corporations, universities, learned societies
.2	Futurology —001.18	.2	Union, central, joint subject catalogues. Repertories. Catalogues of the holdings of more than one library
009	HUMANITIES. ARTS SUBJECTS IN GENERAL —168.522	.3	Catalogues of private libraries (personal, family libraries)
01	BIBLIOGRAPHY AND BIBLIOGRAPHIES. CATALOGUES —002; 025.3; 025.4; 930.255	.4	Auction catalogues. Catalogues of book sales
011/016	BIBLIOGRAPHIES. IDEAL LISTS OF DOCUMENTS, NOT CONFINED TO AN ACTUAL COLLECTION	.41	Commercial, trade catalogues. Publishers', printers', distributors', booksellers' catalogues
011	Universal and general bibliographies (not limited to a specific author, country of origin, subject or format)	.42	Collective trade catalogues. Catalogues of distributors, booksellers etc. (not confined to a single printer or publisher)
012	Author bibliographies. Individual bibliographies. Bibliographies of editions of, or writings about, the works of a particular author, or particular anonymous works. Bibliographies of works published by a particular organization —016	.43	Trade catalogues of individual presses, printers, publishers
013	Collective bibliographies. Bibliographies of works of a particular class of writer	018	Catalogues of book bargains. Second-hand, antiquarian book catalogues
013:0/9	Bibliographies of authors belonging to a particular profession, society or subject speciality	.1	Name catalogues. Author catalogues. Alphabetic catalogues of persons and places. Catchword catalogues
013=	Bibliographies of works in a particular language —Table I(c)	.11	018.091/.092 = 017.091/.092
013"..."	Bibliographies of authors of a particular period —Table I(g)	.2	Name catalogues of non-private libraries
014	Bibliographies of works of particular characteristics: anonymous and pseudonymous works, collections, extracts, concordances etc.	.3	For scope of 'non-private' — 017.1
.1	Bibliographies of anonymous and pseudonymous works	.4	Union name catalogues
.3	Contents bibliographies. Abstracts and indexes. Lists of works appearing in serials or polyographies. Contents lists and indexes of all kinds	019	Name catalogues of private libraries
.5	Concordances. Analytical indexes to individual authors or works	.1	Auction name catalogues. Name catalogues of book sales
015	Bibliographies of place. National bibliographies. Local and regional bibliographies	.11	Commercial, trade alphabetic catalogues.
016	015(410) Bibliographies of works published in the UK, e.g. British National Bibliography	.2	Name catalogues of publishers, printers, distributors, booksellers
	Special subject bibliographies	.3	Dictionary catalogues. Catalogues incorporating author, title, catchword, alphabetic subject entries etc. in a single sequence. Others
	016:011 Bibliographies of general bibliographies	.4	019.091/.092 = 017.091/.092
	:087.5 Bibliographies of publications for children	.5	Dictionary catalogues of non-private libraries
	:34(05) Bibliographies of law journals	.6	For scope of 'non-private' — 017.1
	:929 Biobibliographies	.7	Dictionary union catalogues
017/019	CATALOGUES. INVENTORIES OF ACTUAL COLLECTIONS. LIBRARY CATALOGUES. PUBLISHERS', BOOKSELLERS' LISTS ETC. —025.3	.8	Dictionary catalogues of private libraries
		.9	Auction dictionary catalogues. Dictionary catalogues of book sales
		.10	Commercial, trade dictionary catalogues.
		.11	Publishers', printers', distributors', booksellers' dictionary catalogues
		.12	Union catalogues in general. Repertories —017.11; 018.11; 019.11
		.13	Alternative classification for bibliographies and catalogues. Bibliographies and catalogues according to their own characteristics as publications
		.14	According to frequency of publication. Periodic (serial) and non-periodic (once-for-all) bibliographies and catalogues.
		.15	Current awareness lists
		.16	Exhaustive, comprehensive bibliographies and catalogues
		.17	Selective, partial bibliographies and catalogues
		.18	Complete bibliographies and catalogues (with full bibliographic details)
		.19	Concise bibliographies and catalogues (with abbreviated or summarized entries)
		.20	Critical bibliographies and catalogues.
		.21	Collections of reviews, abstracts etc.
		.22	Non-critical bibliographies and catalogues.
		.23	Title lists

019.951	Separately published bibliographies and catalogues in volume form	024.1	Conditions of admission. Qualifications of users, readers, borrowers. Enrolment, registration
.952	Bibliographies and catalogues in periodicals, serials	.2	Charges, fees. Rented use. Free use
.954	Card bibliographies and catalogues.	.3	Hours, times of opening
	Catalogue cards in books ('pre-natal' cataloguing)	.4	Periods of closing. Sundays, festivals, holidays etc. Stock checking periods
.96	According to arrangement of entries	.5	Reference use. Use, consulting of books within the library
.962	In alphabetic order of author's name		→025.5
.963	In subject order, alphabetic or systematic (classified)	.6	Home use. Loan of books for use outside the library. Loan period. Overdues. Fines. Reservations
.964	In alphabetic order of title		→025.6
.965	Combinations of the above arrangements. Mixed entries	.7	Special privileges. Exemptions from regulations
02	LIBRARIANSHIP	.8	Abuses. Damage to stock. Defacement, destruction, loss, theft (by users)
	→002; 01		→025.85
021	FUNCTION, VALUE, UTILITY, CREATION, DEVELOPMENT OF LIBRARIES	025	ADMINISTRATIVE DEPARTMENTS OF LIBRARIES
.3	Relation of libraries to educational institutions, schools, young people etc. Children's sections. Juvenile libraries	.1	Executive. General supervision
	→027.6/8	.11	Finances. Budget. Bookkeeping. Accounts
.4	Accessory services. Specialized functions. Extension work. Lectures. Talks. Discussions. Exhibitions etc.	.12	Printing and publications. Library reports etc.
.6	Library expansion. Grouping. Cooperation	.13	Document reproduction and selection
.62	Branch libraries. Regional branches	.133	Reproduction, duplication
.63	Centralization. Structure of library systems	.135	Selection. Sorting
.64	Inter-library cooperation	.15	Correspondence
.65	Mobile libraries. Travelling libraries	.17	Treatment of special materials (manuscripts, documents, cuttings etc.)
.8	Relations between libraries and public authorities. Library legislation	.2	Acquisition and accessioning of stock.
.84	Free copies. Compulsory remittance of publications. Legal deposit. Copyright deposit	.21	Acquisitions department
.9	Finance, funds. Other means of support. Subscriptions, gifts, grants, rates etc.	.22	Selection of material
		.24	Acquisition of stock. Purchase. Exchange
022	LIBRARY SITE, BUILDING, PREMISES. EQUIPMENT	.25	Receipt and treatment of material on arrival.
	→727.8	.26	Collation
.1	Situation. Site. Location. Accessibility	.3	Processing of new stock. Accessioning.
.2	Building materials. Protection of building	.31	Accessions registers
.3	Planning, utilization of space. Layout, plan.	.32	Duplicate and exchange departments. Sale or exchange of surplus copies
.4	Number of rooms	.321	Cataloguing. Cataloguing technique
	Organization of book storage.		→017/019
	Accommodation of stock. Shelving	.3	Cataloguing rules in general. General instructions. Cataloguing codes
	→025.8	.4	Principles of cataloguing. Entries
.42	Shelving for public access (open access): in the reading room etc.	.8	Style of cataloguing. Compilation of entries and references
.43	Storage, closed access. Stacks		Arrangement of entry. Conventional layout of information
.44	Open cases	.323	Full bibliographic entries
.47	Closed cases	.324	Added entries. References
.48	Special-purpose cases, shelves etc. Hanging shelves. Map cases. Rolling presses etc.	.326	Heading. Entry word
.5	Reading rooms. Study, work rooms	.327	Title. Description
.6	Administrative and other areas.	.328	Edition. Editor, compiler etc.
	Accommodation for various services. Special collection rooms. Lecture, conference rooms etc.	.33	Imprint (Printer. Publisher. Place. Date)
.7	Lighting	.34	Notes. Annotations
	→628.9	.341	Collation. Cataloguing of parts of a work.
.8	Heating. Ventilation	.342	Recording of format, pagination, chapters etc.
	→628.8; 697	.343	Method of arrangement of catalogues. Rules for compilation
.9	Furniture. Fixtures. Fittings. Steps, trolleys etc. Lifts	.345	Accession order (accessions catalogues).
	→684.4	.346	Location order (shelf lists)
023	LIBRARY ADMINISTRATION. STAFF. PERSONNEL	.347	Author catalogues. Author entry
	Details by Table I(k)-05; cf I(i).007	.35	Subject catalogues (Alphabetic subject catalogues. Systematic, classified catalogues)
024	RELATIONS WITH THE PUBLIC.	.352	Combined catalogues. Combinations of the above forms. Dictionary catalogues
	REGULATIONS FOR LIBRARY USE	.354	Catalogues of additions. Additions lists
Special auxiliary subdivision		.357	Alphabetic indexes of persons, subjects, places
024.01	Prescribed uses of the library. Rules and regulations in general		External (physical) forms of catalogues
Principal divisions			Printed catalogues
			Card catalogues
			News-sheets supplementing the catalogue.
			Accessions bulletins

025.4	Classification and indexing. Indexing and retrieval languages. Classifications, thesauruses etc. and their construction —005; 168.2
Special auxiliary subdivisions	
025.4.01	Classification principles and procedure. Characteristics of division. Notation. Facets. Citation order. Filing order
.02	Practical application, uses of classification. Shelf arrangement. Catalogue arrangement. Bibliographic use
.03	Searching and retrieval techniques
.032	Manual search and retrieval
.034	Mechanical sorting, e.g. with punched card equipment
.036	Computer-aided search and retrieval
.05	Indexing and retrieval languages for the whole of knowledge. Universal classifications. Universal thesauruses
.06	Indexing and retrieval languages for special subjects. Special classifications. Special thesauruses
Principal divisions	
025.43	Thesauruses. Descriptor lists. Controlled term lists etc.
.44	Classifications with mainly alphabetic notations (alpha characters, letters, symbols) 025.44BC Bibliographic Classification (Bliss)
.45/.46	Classifications with mainly numeric notations
.45	Classifications with notations based on arabic numerals in decimal system. Decimal classifications 025.45DDC Dewey Decimal Classification 025.45UDC Universal Decimal Classification
.46	Classifications with notations based on non-decimal or non-arabic numerals
.47	Classifications with mixed, alphanumeric notations 025.47CC Colon Classification (Ranganathan)
.48	Thesaurus-classification combinations, e.g. Thesaurifacet
.49	Other indexing and retrieval languages
.5	Reference work. Reference collections. Information services. Advice to readers —024.5
.6	Loans. Loan records. Charging and issuing systems and equipment. Book cards (charging cards). Membership cards etc. —024.6
.7	Binding, upkeep, repair of books etc
.8	Handling, treatment, shelving of books etc. Fixed and relative locations. Labelling, class-marking, shelf-marking —022.4
85	Care, preservation of books etc. Damage. Restoration. Cleaning. Protection —024.8
.855	Destruction, dispersal of collections. Deliberate destruction (of volumes not needed)
.9	Administration of library buildings. Maintenance. Cleaning etc. Removals
026	SPECIAL LIBRARIES. LIBRARIES OR COLLECTIONS DEVOTED TO PARTICULAR SUBJECT SPECIALITIES —002.6
Special auxiliary subdivisions	
026.06	Libraries and collections of audio-visual documents
.062	Gramophone record libraries (disc libraries)
.064	Film libraries
.066	Tape record libraries
.07	Kinds of special library 026.07 ≈ 027
.08	Kind of service (reference, loan)

026.08 (cont'd)	026.081/.082 ≈ 027.081/.082
Principal division	
027	GENERAL LIBRARIES (COVERING ALL OR MOST SUBJECTS)
Special auxiliary subdivisions	
027.021	Learned, scholarly libraries. Research libraries
.022	Public, popular general libraries
.081	Reference service. Collections for use in the library —024.5
.082	Loan service. Collections for home use —024.6; 027.8
Principal divisions	
027.1	Private libraries (personal, family libraries)
.2	Libraries of learned societies, academies, clubs, associations, corporations, firms etc. Proprietary, semiprivate libraries
.3	Public paying libraries. Subscription libraries. Circulating libraries
.4	Free public libraries (established and supported by individuals or institutions)
.5	Public authority libraries
.52	Local authority libraries. Borough, municipal library systems (rate-supported)
.53	Regional authority libraries. Provincial, county library systems (rate-supported)
.54	Central authority libraries. State, national, government libraries (supported by central government funds). Libraries of departments of state, ministries
.6	Libraries for special classes of user. Libraries for prisons, hospitals, factories, the disabled etc. 027.6-056.262 Libraries for the blind (Braille libraries)
.7	Libraries of institutions of higher education. University libraries. College libraries. Polytechnic libraries etc. —378.16...
.8	Libraries of institutions of primary and secondary education. School libraries —371.64
.9	Free reading rooms, newsrooms
028	READING. ADVICE TO READERS. SUGGESTIONS FOR READING
Special auxiliary subdivisions	
028.01	Taste for reading. Passion for reading —090.1
.02	Reading psychology. Relationships between reader, author, book
Principal divisions	
028.1	Reading methods, technique. Behaviour with books. Note-taking etc.
.3	Courses of reading. Prescribed books. Reading lists
.6	Teaching the art of reading. Lectures. Stimulus and guidance in schools —372.41
.7	Use of reference works
.8	Advice to readers. Suggestions for reading
03	ENCYCLOPAEDIAS. GENERAL REFERENCE WORKS —Table I(d)(03); 801.3
030.1	General, comprehensive encyclopaedias (with detailed articles on all subjects)
.8	Dictionaries. Lexicons. Glossaries
04	COLLECTIONS OF MISCELLANEOUS ESSAYS. PAMPHLETS. BROCHURES. OFFPRINTS. LECTURES. PAPERS —Table I(d)(04); 82-4
05	SERIAL PUBLICATIONS. PERIODICALS (JOURNALS. MAGAZINES ETC.) —Table I(d)(05); 82-92

050	Scope, significance of periodicals. Business and editorial management 050 ≈ 070	06.044.5 .6	Treasurers. Financial managers Other members of directorate. Junior directors. Other officers Members of executive committees General committees. Selection boards. Electoral, disciplinary committees etc. Offices. Office staff. General administration —06.08; 658.3
058	Yearbooks. Annuals. Directories	.7	General office organization. Functional divisions General management. Top management. Managers in chief Deputy management. Assistant managers General secretariat. Secretary General Local management. District, area managers Associated offices. Secretariat. Personnel management. Property services Accounting, budgeting, financial organs. Accounts departments. Bookkeeping. Auditing —657
.7	Local directories. Street directories. Lists of inhabitants. Trade directories. Classified directories	.045	Estimates, forecasts. Budgeting General expenditure, outgoings Collection of subscriptions, contributions, dues, fees Advances. Loans. Subventions. Grants Other administrative organs Administrative organs concerned with public relations. Publicity departments. Advertising. Press services. Publications Cooperation, collaboration, liaison with other bodies. Joint committees. Delegates Scientific and technical committees. Other specialist organs. Work study. Organization and methods (O & M). Design departments Activities of organizations Activities in general. Current work. Projects, programmes of work Resolutions. Decisions Meetings. Assemblies. Sessions —061.3
.8	Lists, directories of subscribers 058.8:645.15 Telephone directories	.046 .1	Calling notices. Invitations. Notices of meetings Agendas Preliminary reports, submissions. Documents for discussion. Working papers The actual meeting. Conducting of proceedings. Opening. Conclusion Communications. Contributions. Addresses, speeches Discussion. Debate Interpreting (oral translation): simultaneous, consecutive. Interpreters —355.343.18; 356.362; 651.926
059	General almanacs, calendars <i>Calendars of events in special subjects are classed at the number for the subject</i> —264-11; 529.37.5	.11 .12	Motions. Proposals. Resolutions of assembly Records, minutes. Reports of meetings Extraordinary meetings Oral communications. Discussions Publications, reports concerning work Reports. Bulletins Regular collections of printed work. 'Proceedings...'. 'Transactions...' —05
2	Block calendars. Tear-off calendars	.126	Annual reports Memoirs, essays. Collections Members' publications Distribution of communal assets among members Special rates and remissions for members Activities concerning the public. Cash assistance. Welfare activities. Advisory services
.3	Ephemerides. Calendars, lists, 'diaries' of coming events	.13	Events organized by societies. Competitions. Exhibitions. Scientific and technical activities Competitions Exhibitions —061.4; 069; 659.152
.7	Greetings publications (Christmas, New Year etc.)	.2 .047	Diplomas. Certificates. Testimonials. Chartering, registration
06	ORGANIZATIONS AND OTHER TYPES OF COOPERATION. ASSOCIATIONS. CONGRESSES. EXHIBITIONS. MUSEUMS —347.19; 347.41	.42 .47 .6	
Special auxiliary subdivisions (not applicable at 069)			
06.01	General character	.84	
.011	Kind. Name. Description. Sphere of authority, competence. Aims, objectives, purpose. Location. Address	.048 .2	
.012	Foundation. Duration. Dissolution		
.013	Statutes. Articles of association. Rules, regulations. Legal constitution	.6	
.017	Relations with other organizations. Affiliation. Federation	.049	
02	Members. Rights and obligations of members	.05	
.021	Generalities. Membership lists, rolls	.051	
.022	Admission. Election. Resignation. Exclusion. Expulsion	.052 .053	
.023	Kinds of membership		
.2	Ordinary membership		
.6	Subscribing members. Founder members	.2	
.7	Honorary members		
.024	Grouping of members. Specialist groups. Local groups etc.	.3 .4	
.026	Rights and obligations of members. Voting rights. Subscriptions, contributions, dues, fees	.5	
.027	Discipline. Breaches of regulations. Penalties	.52	
.028	Other matters concerning members 06.028 ≈ 35.078	.53 .56	
.03	Corporate assets. Property		
.035	Movables 06.035.2/5 ≈ 347.2/5	.6 .7	
036	Immovables 06.036.2/5 ≈ 347.2/5	.8	
.04	Administrative, executive organs	.054	
.041	Functions and authority of administration	.055	
.042	General assemblies. Plenary sessions. Deliberative, decision-taking assemblies	.1 .2	
043	Administrative councils and committees <i>Each subdivision of 06.043 may be subdivided like 06.02, e.g.</i> 06.043.42 Election, resignation etc. of committees <i>from 06.043.4 and digit 2 from 06.022</i>	.5 .6 .8	
.1	Boards of patrons	.056	
.2	Boards of governors, syndics, trustees, guardians. Honorary committees	.057	
.4	General and administrative committees	.058	
.5	Business committees. Boards of management		
.6	Advisory, consultative committees		
.044	Directorate. Executive boards and committees. Officers <i>Each subdivision of 06.044 may be subdivided like 06.02</i>	.06 .063 .064	
.1	Nomination. Rights and obligations of officers		
.2	Presidents. Chairman	.066	
.3	Vice-presidents. Acting chairman		
.4	Secretaries. Company secretaries		

06.067	Examinations	061.41	General international exhibitions. World fairs, expositions
.068	Distribution of prizes, awards		General national exhibitions
	06.068 NOBEL: 172.4 Nobel Peace Prize	.42	Specialized exhibitions. Trade fairs etc, e.g.
.07	Various public events, displays	.43	061.43:629.113 Automobile exhibitions.
.072	Customs, traditions. Ceremonial		Motor shows
.073	Processions. Parades		061.43(100) International specialized exhibitions
.074	Public performances, productions		(4/9) Various national specialized exhibitions
.075	Other public displays		Mobile, travelling exhibitions
.076	Outings. Excursions. Viewings. Tours of inspection		—069.15
.077	Receptions	.46	Bazaars, fairs without particular commercial aims
.078	Festivals. Celebrations. Feasts. Banquets. Concerts	.47	Exhibitions and displays of individual objects
.08	Personnel of organizations		Business undertakings: industry, trade, commerce. Business houses. Firms. Companies. Profit-making concerns
	06.08 ≈ 35.08; → Tables I(i).007, I(k)-05	.48	—347.7; 658
Principal divisions		.5	<i>Denote kind of business by colon combination; location or area by place auxiliaries, Table I(e); name by A/Z</i>
061	ORGANIZATIONS AND OTHER TYPES OF COOPERATION. SOCIETIES. ASSOCIATIONS. CONGRESSES. EXHIBITIONS. BUSINESS FIRMS. RESEARCH INSTITUTIONS. PUBLIC FUNCTIONS	.6	Scientific and technical establishments, centres, services (and their activities generally)
	—347.19; 347.471		—061.22
Common auxiliary subdivisions			General establishments for the promotion of science, research and development
061-05	Persons in relation to organizations etc.	.61	—061.27
	→ Table I(k)-05		Specialized research and development establishments or centres. Experimental stations. Research laboratories
Principal divisions		.62	Observations. Field stations
061.1	Government organizations and cooperation (according to public and international law). Government, state, national, international organizations		Control, inspection, analysis and testing establishments, centres and services
	—Table I(e)(1-4/-6), (100), (4/9); 341.217	.63	Design, drawing, model-making centres or services
.12	Academies	.64	Consultation, advice and information centres, bureaux, services etc.
.14	Offices		Data centres, services and networks
.2	Non-governmental organizations and cooperation (according to civil law). Private organizations, societies, associations, movements etc.	.65	Festivities. Receptions. Processions. Banquets. Displays. Artistic performances. Presentations, concerts. Charitable events etc.
	—341.215.2	.66	—394; 791
.21	Organizations etc. with general range of activity	.68	Commemorations. Anniversaries. Jubilees.
.213	Youth organizations. Boys' clubs. Girls' clubs. Boy Scouts. Girl Guides. Young Men's and Women's Christian Associations (YMCA, YWCA) etc.	.7	Consecrations. Inaugural ceremonies.
.22	Organizations etc. for the advancement of knowledge, science, culture. Learned societies	.75	Swearing in. Oaths of allegiance.
	—061.12; 061.6		Commemorative albums. Dedications.
.23	Organizations etc. with specialized aims and activities. Professional associations	.9	Tablets, rolls of honour. Muniments. Monuments
.233	Politically based organizations etc.		Groups of persons with a common interest
.234	Organizations etc. based on ideological, philosophical, religious outlook	.91	—Table I(k)-056.15
	—267		Adherents. Schools (of thought, style etc.).
.235	Organizations etc. with humanitarian, philanthropic aims, for social reform, rehabilitation. Prisoners' welfare societies etc.	.92	Movements without formal constitution devoted to a leading person or idea.
.236	Esoteric, secret or semi-secret organizations and movements	069	Supporters. Sympathizers. Pro...
.4	Secret organizations etc. with criminal tendencies		Opponents. Objectors. Anti...
.5	Secret organizations etc. with occult interests, e.g. Rosicrucians		MUSEUMS. PERMANENT EXHIBITIONS
.6	Secret protective societies, orders, fraternities etc. (e.g. Freemasons, Oddfellows)		069(1-21) Municipal museums
.237	Clubs, local societies, circles for sociability, recreation, sport etc. Social clubs. Sports clubs. Literary clubs etc.		(1-4) National museums
.25	Federations. Confederations. Unions, alliances of organizations		069-05 Museum visitors (especially -053/-058)
.27	Foundations. Endowments. Institutions		Special auxiliary subdivisions
	—061.61	069.01	Theory of museums. Museography.
.28	Working groups. Study groups	.013	Museology
.3	Meetings. Symposiums. Congresses. Conferences. Assemblies	.014	Public museums
	—06.053	.015	Museums of establishments or societies for public welfare
.4	Temporary exhibitions. Salons. Fairs	.016	Museums of institutions of higher education.
	—06.064; 069; 659.152	.017	University museums. College museums
		.02	School museums
			—371.65
			Private museums
			Museums according to speciality. Kind of collection
			069.02:5 Of the pure sciences
			:6 Of the applied sciences, technology

069.02 (cont'd)	069.02:7 Of the arts	069.64 (cont'd)	069.64 ≈ 06.047
	:929 Biographical museums	.67	Decentralization. Branch museums. Annexes
	<i>Includes exhibitions about particular persons, homes of the famous etc.</i>	.68	Relations with other establishments.
	<i>Details by A/Z</i>	.7	Cooperation between museums
	:93/99 Historical museums		Publications
Principal divisions			<i>Publications of particular museums are classed primarily at the number for the museum, with the appropriate form auxiliary from Table I(d)</i>
069.1	Aims. Purpose. Utility. Educational, instructive function of museums. Guided tours. Lectures to parties of visitors	.8	Research in museums
	—371.335; 379.822		—001.891
.12	Educational activities of museums in general. Classes. Courses. Film and slide shows. Study groups etc.	07	NEWSPAPERS. JOURNALISM. THE PRESS
.15	Extramural, outside activities Loan of exhibits Travelling exhibitions (from permanent collections). Organized outings, excursions		<i>Here are classed publications of frequent appearance (especially daily and Sunday papers) presenting general information, news, items of current interest.</i>
	—061.46		<i>For other serials — Table I(d)(05); 05</i>
.2	Building. Installations. Site. Situation	070	<i>Details by Table I(e)(4/9), name A/Z etc.</i>
	—628.8/.9; 697; 727.7		SIGNIFICANCE. IMPORTANCE.
.23	Plans. Utilization of site. Arrangement of buildings. Room for expansion. Layout of rooms	.1	COMMERCIAL ADMINISTRATION.
.27	Special services	.11	EDITORIAL SUPERVISION
.271	Technical services. Workshops. Laboratories	.12	Scope, theory, significance of the press.
.272	Design studios. Warehouse, storage areas	.13	Relation to other professions
	Installations and services for the public.		Standards. Ethics. Cultural, educational influence. Sense of responsibility
	Information points. Restaurants. Cafeterias.		Endowed newspapers. Independence from public opinion, support
	Sales counters		Freedom of the press. Censorship. Invasion of privacy, its prevention (UK: Press Council, etc). Protection of secrets, of national interest (UK: D-notices etc). Anarchic, seditious influence
.29	Interior decoration. Evocative decor		—342.732; 351.751.5
3	Equipment of various kinds. Fittings. Furniture	.133	Legal restraints on journalists
	—645.4	14	Censorship in wartime
4	Procedures of arranging, setting up exhibits. Preparation. Preservation. Cleaning. Repairing. Production of models, display groups etc.	15	—355.244.1
41	Acquisition. Purchases. Legacies. Loans etc.		Subservience to sectional interests (political, commercial etc.) Press as mouthpiece for pressure groups
42	Treatment		Anonymous newspapers from unknown presses and publishers. Secret, subversive, 'underground' press. Anonymous pamphlets. Handbills
.424	Collection of specimens. Fieldwork	.18	Ownership and control. Newspaper names, titles. Area of operation, circulation (national, regional, provincial, local)
	—57.082.11		—Table I(e)
.426	Accessioning. Description. Registration. Inventories. Shelf and case lists	.2	Business management
.427	Numbering, labelling of exhibits	.3	—331; 65
.44	Cleaning, reconstruction, repair, preservation of exhibits	.32	Printing
	—57.082.5		—655.3; 681.62
.441	Cleaning	.325	Frequency of issue (daily, weekly etc.)
.442	Disinfection. Destruction of parasites	.327	Time of issue (morning, evening etc.)
.444	Methods of repair, reconstruction in general	.328	Size of edition. Number printed
445	Methods of mounting, display. Casts. Models. Dioramas etc.	.33	Distribution. Circulation. Sale. Subscription. House delivery. Newsagents. Newsvendors. Promotions. Circulation boosting
.5	Collections. Exhibits		Advertising department. Business pertaining to paper's advertising columns, small-ads etc.
.51	Museum pieces		—659.1
	069.51:549 Minerals		Foreign offices and agencies
	:592/599 Animals		Editorial management
	:64 Household items Furniture		—82.083
	:75 Paintings	.36	General. Editing rules. Order of sections and articles. Style. Newspaper diction. Journalese
	:903 Prehistoric remains		Staff. Other contributors. Organization: hours, duties
53	Technique of exhibiting		Editorial staff. Editors. Sub-editors
.532	Selective or exhaustive presentation	.39	Staff writers. Reporters. Columnists.
.533	Originals or reproductions	.4	Feature-writers. Journalists on contract
.535	Neutral, non-decorative setting	.41	Occasional contributors. Freelancers. Special correspondents. Syndicated copy
.536	Atmospheric setting or decor. Use of colour, lighting, sound	.42	Editorial departments
.538	Museum catalogues	.421	News. News desk. Sources and channels of news
.6	Organization and management of museums	.422	News agency services. Wire services, e.g. Associated Press, Reuter, Tass
.61	Administrative organization	.423	
.611	Administration in the strict sense		
	069.611 ≈ 06.01		
.614	Administrative organs		
	069.614.2/.4 ≈ 06.042/.044		
.62	Visiting, access arrangements. Other regulations. Relations with the public.	.43	
	Admission. Hours of opening	.431	
.63	Management. Office staff	.	
	069.63 ≈ 06.046	.2	
.64	Finances		

070.431.4	Official news section (official announcements, communiqués)	09 (cont'd)	<i>Here are classed (a) the actual documents; (b) studies of such documents; (c) studies of a whole class of rare documents. Details by common auxiliaries of form, place, time, A/Z</i>
.5	Foreign news desk		
.6	Home news desk		
.432	Editorials. Leading articles, leaders		
.433	Local interests. Discussion of local affairs	090.1	Bibliophily. Bibliomania. Book collectors and collections. Rare book trade
.443	Financial news. Business news. Reports on stocks, shares. Shipping news		—655.425
.445	Household, home features. Court, palace. Gardening. Women's pages. Children's sections. Games, puzzles etc.	091	Manuscripts
.446	Recreation. Sport	.1	—75.05
.447	Critical, review section (arts, theatre, music). Critiques. Discussions. Analyses	.2	Form of manuscript. Leaves. Polyptychs. Rolls (volumina). Codices (volumes, books with folded leaves)
.448	Literary and other artistic features. Poetry. Fiction. Serials (serialized novels etc.)	.3	Manuscripts according to writing surface (papyrus, parchment, paper etc.)
.449	Other features	.5	—003.51
.7	Readers' queries. Questions answered. Information. Advice column. Agony column	.6	Various kinds of manuscript. Illuminated manuscripts. Palimpsests
.8	Illustrated, picture sections. Cartoons. Comic strips		Autographs. Autography. Handwritten texts. Holographs. Signatures
.45	Voluntary contributions. Correspondence etc. Letters to the editor		—099.3
.46	Announcement of public events		Printed works with manuscript notes by celebrated authors (other than the authors of the works)
.47	Special editions. Sunday issues. Supplementary editions, extras	092	Xylographic books. Block books (books printed from carved wooden blocks)
.48	Special kinds of newspaper	093	Incunabula. Works printed in Europe before 1500
.481	Official journals, gazettes		<i>Originals; facsimiles of them; studies of them</i>
.482	Religious newspapers		
.484	Newspapers for foreign-language communities. Papers in a language foreign to the country of publication	094	Other precious, remarkable or rare printed works
.485	Advertisement papers. 'Advertisers'. Free, give-away newspapers containing mainly advertising	.1	Works of great rarity but later than incunabula. Masterpieces of typography. Works from the celebrated great presses. Limited editions etc.
.486	Professional, technical papers		—099.4
.487	Humorous, comic papers		Unique copies. Sole extant copies. Unica
.488	Literary papers	.2	—Table I(d)(0.068)
08	POLYGRAPHIES. COLLECTIVE WORKS	.3	De luxe editions. Fine editions. Collectors', book-lovers' editions
	—Table I(d)(08); 04; 05; 82-82		—Table I(d)(0.027.6)
081	Individual polygraphy. Collected works of individual authors on various subjects	.4	First editions. Editions principes
082	Collective polygraphy. Collective works by several authors on various subjects	.5	Less valuable old books
.1	Publishers' series, sets, libraries. Trade series. Reprint series	095	Books remarkable for their binding
.2	Miscellanies. Commemorative volumes (Festschriften). Collections in honour of eminent scholars	096	Books remarkable for their illustrations or for materials used
084	Pictorial material. Collections of illustrations, plans, maps etc.	.1	Rare illustrated books
	084 ≈ (084), Table I(d)	.2	—084
086	Documents of particular form, including objects	097	Books of precious materials. On vellum, silk, bark etc. With silver, gold etc. With woven, carved, engraved text
	086 ≈ (086), Table I(d)	098	Ex libris. Bookplates. Marks of ownership or origin. Monograms, seals etc.
087	Documents of particular origin or destination		Various kinds of work remarkable for intrinsic characteristics
.2	Publications for particular classes of reader	.1	Prohibited books. Works condemned or banned by temporal or spiritual powers. Suppressed, censored works. Library 'infernos' (collections not considered suitable for open display). Clandestine, secret, underground literature
.5	Publications for young people. Children's, juvenile literature. Books for infants. Picture books. Story books		—070.18; 82-993
	—Table I(d)(0.053.2); 372.4; 398.2		Prohibited by religious authorities (Index librorum prohibitorum etc.)
.6	Popular writing. Colportage literature	.11	—241.73
.7	Official and semi-official publications on events of general interest. Blue books. White papers etc.	.12	Prohibited by civil authorities
088	Miscellanies. Varia	.3	—351.751.5
	—04		Lost works. Imaginary, suppositious and projected works. Works announced but never published
09	MANUSCRIPTS. RARE AND REMARKABLE WORKS. WORKS WITH SPECIAL EXTRINSIC CHARACTERISTICS: SCRIPT OR TYPE, BINDING, ILLUSTRATION, MATERIAL UPON WHICH THEY ARE WRITTEN OR PRINTED	.5	Works with key (detailed correspondence to real persons, events etc). Romans à clef etc.
		099	Other kinds of work, remarkable for extrinsic characteristics. Curiosa
		.1	Works of exceptional format. Outsize, giant, mammoth. Minute, dwarf, microscopic. Micrographic editions
		.2	Works which have fetched high prices

099 3
.4

Works with autograph dedication
—091.5
Works which have become rare through
adventitious circumstances. Books not on the
market. Out-of-print editions
—094.1

099.5

Works of value because of their provenance.
Books formerly belonging to historic, royal,
literary personages, great collections etc.

1 PHILOSOPHY. PSYCHOLOGY

101	NATURE AND ROLE OF PHILOSOPHY	124.4	Causa exemplaris. Creative idea. Type. Ideal
.1	Nature of philosophy. Philosophy as a science. Philosophy as an art	.5	Value. Norm
.2	Possibility of philosophy. How is philosophy possible?	.6	Determination. Destiny
.3	Scope and limits of philosophy	125	Finiteness, finity. Infiniteness, infinity. The infinite and boundless. Universe
.8	Methods of philosophizing	128	The soul. Nature of life and death
.9	Person and vocation of the philosopher	129	Origin and destiny of the individual soul. Transmigration of souls. Metempsychosis
11	METAPHYSICS		Incarnation. Reincarnation. Immortality
111	GENERAL METAPHYSICS. ONTOLOGY	13	PHILOSOPHY OF MIND AND SPIRIT. METAPHYSICS OF SPIRITUAL LIFE
.1	Concept of being, of primary substance (tode ti). Ontology. Existence. Essence. Quiddity. Possibility	130.1	General concepts and laws
.3	Substance (ousia). Monad. Appearance. Subsistence. Person	.11	Nature of mind and spirit
.4	Accidence. Qualities	.12	Coherence, continuity and laws of spiritual life
.5	Relations. Relativistic theories	.121	Phenomenology and morphology of mind and spirit
.6	Acts. Activities. Being in potentiality. Being in act. Motion. Change	.122	Experience and understanding of the spiritual
.7	Created and uncreated being. Immateriality. Pure mind and spirit	.123	Laws of spiritual life
.8	Transcendental properties of being	.2	Philosophy of culture. Cultural systems. Theory of cultural complexes
.81	Distinction between being and its transcendental properties	.3	Metaphysics of spiritual life
.82	Unity. Non-being, non-existence. Plurality. Unity and indivisibility of being	.31	The individual mind or spirit
.83	Truth. Falsity	.32	The objective spirit (Hegel, Simmel, Sombart)
.84	Goodness. Benignity. Evil	.33	The collective spirit. The cosmic spirit. <i>Der Weltgeist</i> (spirit of the universe)
.85	Beauty. Ugliness		
.852	Aesthetics (objective and subjective)	133	PROBLEMS OF THE OCCULT
113/119	COSMOLOGY. PHILOSOPHY OF NATURE		→141.33; 159.961
113	General laws of nature. Transformation and transience of matter. Origin of the universe. Creation. Cosmogony	.1	Concept and nature of the occult
114	Space. Place, internal and external. Dimension. Empty, void; full, plenum. Infinite space. Singularity and plurality. Extension	.2	Supersensory, supernatural experience
115	Time. Duration. Component of temporal duration. Eternity. World created ab aeterno. Relation of time to motion	.3	Initiation. Spiritual training. Path of knowledge
.4	The space-time continuum. Unity of space and time	.4	Occult perception. Clairvoyance. Clairaudience. Soothsaying
116	Motion. Development. Mobility. Transient and immanent effect. Remote action. Becoming, change, transition	.5	→159.961; 291.32
117	Matter. Transmutation of matter. Primary matter (first principle). Substantial form. Material cause. Formal cause	.52	Occult influence. Magic. Sorcery. Enchantment. Spells. Thaumaturgy. Theurgy
118	Force. Energy. Determination of accidents of inorganic substances	.521	→291.33; 398.47
119	Quantity. Number. Constant quantity of coexistence and succession. Distinction from substance	.522	Special occult sciences
122/129	SPECIAL METAPHYSICS	.1	133.5:54 Alchemy
122	Causality. Causation. Principles. Causa efficiens. Condition. Effect. Occasion	.2	Astrology
123	Freedom and necessity	.3	→52
.1	Freedom. Indeterminism	.4	Theoretical astrology. Critique. Methods
.11	Chance	.5	Elements of astrology
.2	Necessity	.6	Principles and survey of astrological tradition. Abbreviations. Symbols. Signs
.21	Fatalism	.7	The zodiac
124	Teleology	.8	The planets
.1	Order. Chaos	.9	Fixed stars. Other astral factors
.2	Meaning. Meaningfulness	.526	Sublunary factors in general. Geocentrism. Heliocentrism
.3	Purpose. Purposefulness. Expediency. Non-expediency. Dysteleology. Final cause. Entelechy	.527	Houses of the firmament and their meaning
		528	The aspects
		.529	Sensitive points. Other equidistances
		.6	Other representations. Position and domination
		.9	Astrological technique. Horoscopes
		14	General system of interpretation. Individual astrology. Microcosm. Ptolemy's genethliacon. Individual readings, predictions
			Interpretation in universal astrology. Macrocosm. Ptolemy's catholicon. Investigation, prediction of world events
			Technique and interpretation of prognostic astrology. Forecasts. Predictions. Horoscopes for major events of individual life (marriage, career etc.)
			Chiromancy. Palmistry. Chirolgy
			→159.925.7
			Spiritualism (spiritism). Manifestations. Telekinesis. Ectoplasm etc.
			PHILOSOPHICAL SYSTEMS AND POINTS OF VIEW. WELTANSCHAUUNG

140	POSSIBLE PHILOSOPHICAL ATTITUDES. SYSTEM TYPOLOGY	159.9	PSYCHOLOGY —301.151; 591.51; 612.821; 616.89 <i>Denote persons and personal characteristics by Table I(k)-05</i>
.8	<i>Weltanschauung</i> . Philosophical outlook, view of the world		
141	KINDS OF VIEWPOINT	Special auxiliary subdivisions	
.1	According to number and quality of principles	159.9.01	Theories. Laws. Metaphysical psychology. Rational psychology
.111	Monism	.015	Theories based on the exact sciences. Mechanistic, chemical, biological theories
.112	Dualism. Causalism. Occasionalism	.016	Other theories
.113	Pluralism. Triadic systems. Polyrealism	.1	Body and soul. Body and mind
.12	Ontological materialism	.12	Dualistic theories. Interactionism.
.13	Metaphysical idealism		Influxionism. Parallelism
.131	Platonism. Neoplatonism	.13	Monistic theories. Materialism. Automatism.
.132	Rationalism. Intellectualism. Universalism —165.63		Idealism. Animism
.135	Spiritualism (philosophical)	.2	Intellectualistic theories
.141	Animism. Hylozoism. Panpsychism	.3	Psychomechanistic theories
.142	Voluntarism	.4	Psychophysical theories
.143	Alogism (Schopenhauer, Ed. v. Hartmann, Bahnsen)	.5	Functional theories. Functionalism
.144	Monadism. Monadology. Personalism	.6	Physiological theories —612.01; 612.8
.145	Organicism	.018	Psychological methods in general. Subjective methods. Introspection. Objective methods.
.151	Conditionalism (Verworn)		Analytical, synthetic, descriptive, explanatory methods —159.9.072.5
.152	Mechanicalism (Mechanicism)	.019	Psychological systems and schools —159.964.2
.153	Dynamism	.2	Structural psychology. Gestalt psychology
.154	Energism (Ostwald, Ranzoli)	.3	Functional psychology. Dynamic psychology.
.155	Evolutionism	.4	Purposive psychology (hedonic, hormic)
.156	Mobilism (Chide)		Reaction psychology. Psychology of behaviour. Behaviourism. Reflex psychology.
.157	Finalism (teleological viewpoint)	.07	Dialectical materialism
.2	According to judgement of the value of the world	.072	Experimental psychology. Research Experiment. Investigation. Tests. Measurements
.201	Problem of any value judgement of the world	.42	Individual investigation
.1	Problem of the scale of values. Objective and subjective scale	.43	Group investigation
.2	Basis of evaluation: by principle, theoretical, factual-empirical	.5	Methods
.21	Optimism	.52	Subjective methods. Self-observation
.22	Pessimism	.53	Objective methods
.23	Meliorism	.533	Reaction methods. Interrogation, association etc.
.3	Special and mixed forms	.59	Various psychometric methods
.31	Scholasticism. Terminism. Nominalism	.592	Gradation methods
.319	Conceptualism	.593	Error methods. Methods of right and wrong cases
.32	Neoscholasticism	.594	Equivalence method
.33	Existentialism	.075	Processing and interpretation of results.
.33	Philosophical mysticism —248.2		Correlations —519.2
.331	Earlier esoteric schools	.078	Apparatus. Chronographs. Psychodimeters.
.331.5	Cabbala		Lip-key etc. Stimulation apparatus
.332	Theosophy		
.333	Anthroposophy —289.957		
.336	Sufism		
.338	Eclecticism. Syncretism		
.339	Various esoteric schools		
.4	According to attitude to problem of the Deity —211	Principal divisions	
.41	Theism	159.91	PSYCHOPHYSIOLOGY (PHYSIOLOGICAL PSYCHOLOGY). MENTAL PHYSIOLOGY —612.8; 613.8
.411	Polytheism. Henotheism	.913	Mental hygiene
.412	Monotheism		
.42	Deism	159.92	MENTAL DEVELOPMENT AND CAPACITY. COMPARATIVE PSYCHOLOGY —591.51
.43	Pantheism. Acosmism		Characteristics of mental life.
.44	Panentheism	.922	Consciousness. Mental development in humans. Differential psychology. Genetic psychology. Developmental psychology
.45	Atheism		Sex psychology
.5	According to attitude to problem of soul and free will —159.947; 17.021.2; 234.9; 237.2	.1	Influences of natural and social environment
.7	According to attitude to human society —172; 301.19	.2	Sensory influences
.8	Socialist schools and systems —329.14; 330.86	.23	Topographic influences. Landscape
.81	Pre-Marxian socialist schools. Utopian socialism	.24	Meteorological influences. Climate. Weather
.812	Saint-Simonism	.25	Residential influences. Dwelling. Domicile
.813	Fourierism	.26	Social influences. Neighbours. Associates etc. —301.15
.814	Pre-Marxian English socialist doctrines. Owenism, Chartism etc.	.27	Influence of dress. Clothing —391; 613.48
.82	Scientific socialism, communism, Marxism. Marxism-Leninism	.3	Influence of ancestry. Mental heredity. Inherited characteristics

159.922.4	Race psychology. Ethnopsychology. National psychology —Table I(e)(3/9); Table I(f)	159.937.24	Preperception —159.954.3
.6	Influence of age. Maturity. Senescence	.3	Perceptual errors. Normal illusions —159.961
.7	Child psychology. Paedology. Paedopsychology	.5	Special classes of perception
.72	Intellectual development of the child	.51	Perception of colours. Colour as visual sensation. Psychological theory of colour —535.64; 612.843.31
.73	Mental characteristics of the child. Influence of child's age. Psychology of infancy, childhood, puberty	.511	Appearance of the colours. General properties of colour sensations. Surface colours. Solid colours. Chromatic and achromatic colours
.74	Children's point of view, attitudes	.512	Attributes of colours. Warm and cold colours. Emergent and receding colours. Brightness
.75	Children's descriptions and representations	.513	Colour nomenclature. Names of colours
.76	Abnormal children. Children with physical, mental and moral defects. Precocious and retarded children. Child prodigies. Delinquent children etc.	.514	Problems of colour of lighting (illumination), and of tinted spectacles. Colour sensitivity in altered environmental conditions. Local colour. Shadow perception. Colour fidelity (in reproductions)
.8	Psychology of adolescence 159.922.8 ≈ 159.922.7	.515	Effects of individual colours. Warning colours, signals. Congenial, relaxing colours. Spatial effects —62-777.6
.923	Type psychology. Individual psychology. Psychology of individualities. Individuality. Personality. Character psychology. Characterology. Idiosyncrasies. Personal equation. Personality types	.5	Colour symbolism. Colours for sorrow, joy etc. —264-037
.2	Development, emergence of the personality. Self-awareness. Identity of the personality. The ego. Self and not-self. Self and body. The inner self. Self as person. Self and society	.516	Interactions of colours. Psychologically fundamental colours. Psychologically complementary colours. Effect of colour groupings, juxtapositions —535.6
.3	Composition of the personality. Character traits. Psychogram	.52	Perception of space and extent. Localization of objects. Psychological optics other than colour theory
.4	Temperaments	.522	Elements of space perception. Distance. Size, dimensions. Shape. Direction
.423	Sanguine	.523	Sensory factors in space perception
.424	Choleric	.53	Perception of time (duration) and rhythm
.425	Phlegmatic	.54	Perception of movement
.426	Melancholic	.7	Synaesthesia. Colour audition
.434.2	Schizothymic	.938	Psychophysics. Psychometry
.4	Viscous	.2	Psychophysics. Stimulus threshold
.6	Cyclothymic	.3	Psychometry. Psychochronometry. Mental chronometry. Reaction time
.5	Cultivation of the personality		
.924	Genius		
.2	Characteristic traits of genius	159.94	EXECUTIVE FUNCTIONS
.3	Genius as hereditary, inherited	.942	Emotions. Affections. Sensibility. Feelings
.6	Genius as pathological, morbid state	.2	Properties of the sensibility. Affective quality. Intensity. Rhythm. Duration. Content
.62	Genius and insanity	.3	Expression of emotions. Laughing. Crying etc.
.64	Genius and vice	.4	Varieties of emotion
.7	Environment and training of genius. Upbringing. Home, family, education etc.	.5	Emotional states. Sentiments. Moods
.8	Classes of genius	.6	Passions. Uncontrolled emotions
.925	Study of expression. Physical manifestation of mentality. Bodily expression of character	.943	Conation and movement. Motor functions. Action. Drives. Instincts
.2	Physiognomy	.5	Involuntary movements
.5	Phrenology. Craniology. Cerebral localization of faculties or functions	.6	Innate movements. Tropisms. Reflexes. Instincts
.6	Graphology	.7	Acquired movements. Habits. Laterality. Dextrality (right-handedness). Sinistrality (left-handedness)
.7	Chirognomy —133.6	.8	Voluntary, consciously controlled movements
.8	Mime and mimicry. Pantomime. Voice, gesture, gait etc.	.944	Work and fatigue. Efficiency. Performance curve —331.054/.055; 613.73; 658.3 05...
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 Neo-apostolic communities
 Society of Friends (Quakers) (George Fox)
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 International Bible Students' Association
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.5	Religions of oriental peoples		
.51	Chinese religions (except Buddhism) —294.3	.8	Religions of south Amerindian (American Indian) peoples. Pre-Columbian civilizations. Caribs. Incas. Peruvian peoples. Chibchas
.511	Religions of the old Chinese Empire 299.511 ≈ 291	.9	Religions of Malayo-Polynesian peoples. Australian aboriginals. Papuans. Melanesians. Malays. Micronesians. Polynesians
512	Confucianism. K'ung-fu-tse 299.512 ≈ 291		
513	Taoism. Lao-tse 299.513 ≈ 291	991 .992	Religions of prehistoric peoples Religions of primitive, savage peoples in general
52	Japanese religions. Shintoism —294.3		

3 SOCIAL SCIENCES. STATISTICS. POLITICS. ECONOMICS. TRADE. LAW. GOVERNMENT. MILITARY AFFAIRS. WELFARE. INSURANCE. EDUCATION. FOLKLORE

Special auxiliary subdivisions	301.162.2	Estrangement relationships. Antagonism.
3.07 Administrative arrangements. Authorities.		Confrontation. Quarrel
Departments	.3	Mixed, inconsistent relationships. Elements of approach and estrangement. Master-servant relationships. Rivalry
3.07 ≈ 35.07, e.g.		Relationships according to number of persons involved
3.071 Foundation. Development	.163	Influence of quantity on social phenomena
.072 Relations with other organizations		One-sided, unilateral relationships
.076 Competence, sphere of authority.	.2	Plural, many-sided relationships. Bilateral, dyads. Trilateral, triads, 'triangles'.
Duties. Powers	.3	Multilateral
.08 Personnel of authorities. Officials. Staff	.4	Relationships according to immediacy. Direct, immediate, face-to-face. Indirect, mediate
3.08 ≈ 35.08 e.g.		Relationships between groups and individuals
3.083 Duties, obligations of officials	.164	Social processes. Group formation
.085 Competence, powers of officials.		Action and inaction in the social process.
Responsibilities. Official actions	.165	Activity. Passivity
.086 Responsibility, answerability of officials	.17	Differentiating processes. Individuation.
Principal divisions	.171	Separation. Rank. Domination, power.
30 SOCIOLOGY. SOCIAL POLICY.	.172	Subjection, servitude
SOCIOGRAPHY		Integrating processes. Subsidy principle.
—39	.173	Assimilation. Stabilizing. Socialization
301 SOCIOLOGY		Disintegrating processes. Decay. Collapse.
—343.97; 581.55; 591.55	.174	Destructive factors. Corruption. Betrayal
Special auxiliary subdivisions		Transforming processes. Professionalization.
301.01 Nature and purpose of sociology.	.175	Liberalization. Rationalization
Establishment of facts, systematic arrangement, psychological basis and historical development of the phenomena of human communal life	.18	Social structures. Groups. Society. Social sphere
.03 Subject, scope, limits of sociology	.181	According to origin, formation, manner of operation in general
Principal divisions		Loose, amorphous, transitory, short-lived formations. Crowd. Mob. Mass society
301.15 Sources and motives of social phenomena.	.182	—301.152
Social significance		Numerically small groups. Gang, circle, set
.151 Socially significant characteristics of individuals. Drives, propensities. Social psychology	.183	Abstract groups, ill-defined in time and place, e.g. the world of sport
.1 Psychophysical, psychosomatic characteristics	.184	Organically developed groups. Communities
.3 Instinct of self-preservation	.185	Blood-related groups. Consanguinity. Racial, ethnic grouping
.4 Volitional drives. Urge for recognition (self-impulse). Urge for power	.1	—392.3
.5 Emotional drives	.2	Local community. Spatially determined groups
.52 Sympathetic drives. Social, gregarious instinct. Interest, sympathy	.3	Temporal community. Contemporaneity
.53 Urge to help, aid, assist. Supportive, protective instincts towards the weak, women, children	.4	Mental, intellectual community. Community of ideas. Friendship
55 Antipathetic drives. Sarcasm. Mockery. Derision	.186	Rationally determined formations. Society in the strict sense. Purposeive groups. Organized structures
.56 Antisocial drives. Criminal instincts	.1	Regulated groups. Fellowship. College (of elders)
.58 Asocial drives. Solitariness, reclusion	.2	Voluntary associations. Cooperatives Unions. Fraternalism, solidarity
.6 Mental, intellectual, cultural drives	.2	Groups according to scope, range, nature, purpose of activities. Groupings according to balance of power
.7 Instincts for order, regularity	.188	Economic groupings
.152 Group consciousness. Collective awareness		Political groupings
We-feeling		Social, sociable groupings, e.g.
—301.182		301.188.3:79 For recreation, games, sport
.4 Political ideology	.1	Mental, spiritual, intellectual groupings
—32	.2	Orderly, regular groupings. Groupings in a socially standardizing order. Sociology of the state
153 Socially significant processes, norms. Reactions. Defences Influence. Custom. Convention. Public opinion. Fame. Ostracism	.3	Sociological viewpoints and trends.
.154 Socially significant goals, ambitions. Individual goals. Collective goals	.4	Individual sociologists and schools
16 Social relationships	.5	Mechanistic trend. Sociological mechanists, physicalists, energeticists. Mathematical sociologists
161 Socially significant milieu, environment. Social circle, context. Home, native land	.19	Synthetic and geographical trend
Abroad	.192	
.162 Relationships according to direction		
.1 Approach relationships. Cooperation. Compromise	.193	

301.194	Biologically oriented trends. Organacists.	303.5 (cont'd)	303.5.01 Sampling theory
.195	Ethnological trend. Instinctivists	.51	Fixing investigation population. Universe of investigation
.196	Sociological trend. Materialistic sociology	.52	Selection methods
	Psychological trend. Ethnopsychology.	.522	Sample size: total, representative partial
	Introspectivists	.523	Sample collecting: random, conscious
.199	Individual sociologists and their schools	.53	Sampling technique. List sampling. Random walk etc.
	<i>Details by colon or A/Z</i>		Straw polls
303	METHODS OF THE SOCIAL SCIENCES	.54	Estimation of sample error
Special auxiliary subdivisions		.55	Survey methods
303.02	General features of research	6	Inquiry methods. Interview. Questionnaire
.022	Qualitative	.62	Kinds of inquiry
.023	Quantitative	.621	Degree of standardization
.025	Empirical	2	Form of inquiry: oral, personal, telephone;
.026	Non-empirical	.3	written, answer-sheet; group discussion;
.028	Open. Overt. Undisguised		in-depth
.029	Covert. Disguised		Questionnaire design. Open questions.
.03	Dimensions	.622	Options, multi-choice questions
.032	Univariate		Interview strategy: hard, soft
.033	Bivariate	.623	Interviewer
.034	Multivariate	.624	Interviewee
.036	Unidimensional	.625	Interview context: time, place
.037	Quasi-unidimensional	.626	Observation methods
.038	Multidimensional	.63	Kind of observation. Self-observation.
.04	Degree of structuring	.632	Environmental observation
.042	Structured		Observers: selection, training
.043	Unstructured	.633	Observation scheme. Recording. Reporting
.05	Degree of systematising	.634	Content analysis
.052	Systematic	.64	Kinds of content analysis
.053	Unsystematic	.642	Medium of content analysis: graphic, audio
.06	Degree of automation	.643	etc.
.062	Conventional		Unit of analysis
.063	Mechanised	.644	Special survey methods
Principal divisions		.68	Sociometry
303.2	Measurement	.682	Genealogical, ethnogenealogical methods
.21	Theory of measurement	.683	Elite-identifying techniques
.211	Operational definition. Indicators	.684	Time-budget techniques
.212	Measurement level (nominal, ordinal, interval, ratio)	.685	Biographical methods
		.686	—303.422; 929
.213	Discreteness and continuity of variables		Projective methods and techniques. Word
.214	Measuring criteria: reliability, validity, selectivity	.687	association, Rorschach etc.
.22	Measuring methods	.688	Non-reactive methods. Unobtrusive measures
.222	Free estimation method	.7	Analysis methods
.223	Index formation	.71	Statistics, e.g. distribution statistics,
	—303.71		significance statistics, association statistics
.224	Scaling. Scaling models. Cumulative estimation. Discrimination technique.	.72	—31
	Scalogram analysis. Polarity profile	.721	Kinds of analysis
.4	Kinds of investigation. Research strategies.	22	Descriptive analysis, e.g. tabular analysis
	Investigation design		Dimensional analysis, e.g. 'smallest space'
.42	Investigation methods		analysis, multidimensional scaling methods,
.422	Biographies. Biograms		factor analysis (Thurstone, Stevenson),
	—303.686; 929	.723	cluster analysis
.423	Small-group research: sociometric, genealogical	.724	Correlation analysis: simple, multiple, partial
.424	Organizational, institutional research	.725	Causal analysis. Variance analysis.
.425	Survey. Opinion polling. Market research		Regression methods, path analysis
.43	Research strategies	.73	Model analysis. Gaming theory. Operational
.432	With regard to database: primary, secondary.	.732	research. Simulation
	Replication study	.2	Planes of analysis
.433	With regard to scope	.3	System plane
.2	Individual. Case study. Monographic study		Individual and aggregate data analysis
.3	Multi-case investigation	.733	Multi-level analysis. Context analysis.
.436	Origin of data: archive, field, laboratory	.4	Relation analysis
.44	Investigation design	.8	Time plane
.442	Exploratory. Experience survey. Descriptive, dimensional investigations		Prognostic analysis
	Analytical investigations	.82	Research organization. Research procedure
.443	Prognostic investigations	.822	—001.891
.444	Nomologic studies. Parameter estimation	.823	Research organization
.446	Comparative investigations		Persons involved. Director. Researchers.
.2	Cultural comparison. Cross-sectional study	.824	Subjects
.3	Time comparison. Trend, sequence investigation. Historiography	.83	Organization of investigation. Research
.447	Hypothesis testing	.832	planning. Assignments. Budgeting
		.833	Research report
.2	Non-experimental: correlation studies	.3	Research procedure
.3	Experimental studies: natural, artificial.	.4	Hypotheses. Thesis. Evaluation
	Projective experiment	.5	Carrying out investigation. Operationalizing
.5	Selection. Sampling		Survey
			Preparation
			Analysis. Interpretation

304	SOCIAL QUESTIONS IN GENERAL.	311.314	Local statistics. Figures from local authorities, municipalities
	CRITIQUES OF SOCIAL ORGANIZATION.		Private statistics
	REFORMS. PRACTICAL SOCIAL	.4	Statistics of associations, unions (trade, professional etc.)
	PROBLEMS. SOCIAL POLICY	.41	Statistics of (single) organizations.
	—308; 331; 351.83/.84		Management, internal statistics
.9	Various plans for improving the world	.42	Statistics of religious organizations, churches
308	SOCIOGRAPHY. DESCRIPTION OF SOCIAL	.43	
	SITUATION. POLITICAL AND SOCIAL LIFE		DEMOGRAPHY. POPULATION STATISTICS.
	IN VARIOUS COUNTRIES, PEOPLES,	312	VITAL STATISTICS
	RACES. SOCIAL GEOGRAPHY		312-05 Statistics of particular classes of person
	—338		Statistical movement in population
	<i>Details by auxiliaries of place, time etc.,</i>	.1/.3	Births. Natality statistics
	<i>e.g.</i>	.1	Premature births
	308(6-772) Sociography of	.11	Population control (birth control).
	underdeveloped areas of	.12	Malthusianism. Neomalthusianism
	Africa		Births according to parents' occupation, profession, socio-economic class
31	STATISTICS	.13	Births according to sex. Male births. Female births
	31:33 Economics statistics	.14	Births according to descent, extraction, race, nationality, language
	:338 Production, output statistics	.15	Multiple births. Twins etc.
	:343 Crime statistics		Births according to age of parents
	:63 Agricultural statistics	.16	Deaths. Mortality statistics. Causes of death
311	STATISTICS AS A SCIENCE. STATISTICAL	.17	Still births
	THEORY	.18	Deaths according to occupation, profession, socio-economic class
	—519.2	.2	Deaths according to sex. Male deaths. Female deaths
.1	Fundamentals, bases of statistics	.21	Deaths according to descent, extraction, race, nationality, language
.11	Statistical measures. Unit. Concept. Criterion	.23	Deaths by illness, by accident. Fatalities
.12	Statistical grouping	.24	Deaths by suicide
.13	Statistical series. Classification: qualitative, quantitative	.25	Longevity. Life expectancy
.14	Statistical mean. Averages. Weights. Ratio	.26	Mortality tables
.141	Index numbers	.27	Marriage statistics
.15	Distribution. Standard deviation. Quartile, percentile	.28	Divorce statistics
.16	Correlation. Coefficient of correlation.	.29	Celibacy statistics. Single persons.
.17	Coefficient of variation	.3	Bachelors. Spinsters
.171	Statistical analysis of complex movement phenomena	.36	Statistics of households, families
.172	Fluctuations: short, medium term	.4	Statistics of physical makeup of population.
.174	Trend: long term. Fundamental direction of a movement	.5	Somatology statistics. Race. Size, stature.
.175	Seasonal fluctuations. Periodic fluctuations	.6	Health. Sickness
.2	Structural changes		Statistics of morals, behaviour
	Research technique. Preparation.		Increase and decrease in population
	Tabulation	.7	Population growth
.21	Statistical research	.8	Overpopulation
.213	Kinds of research	.81	Population shrinkage, decline
.1	Collection of primary statistical material	.82	Depopulation
.2	Representative methods. Sampling, spot-checking	.83	Reproduction rate. Birth rate
.3	Inquiries. Evaluation	.84	Statistics of distribution and composition of population. Population density
.4	Single (one-off) and continuous investigations	.86	According to place of birth or place of residence, domicile
.5	Collection of secondary statistical material	.9	According to nature of abode. Town, urban population. Country, rural population.
.6	Monographs. Other methods not strictly statistical	.91	Population density
.214	Verification of material. Reliability, accuracy. Errors: systematic, accidental. Sources of error	.92	According to occupation, profession
215	Formulas for accuracy, for correction	.93	According to sex. Distribution of males, of females
.217	Tabulation. Compilation of tables	.94	According to descent, extraction, race, nationality, language
.218	Graphic presentation. Diagrams Cartograms	.95	According to age
219 1	Histograms. Stereograms	.98	According to religion, social status, class, educational level
	Currency. Topicality Up-to-dateness.	.99	
	Recency of research		STATISTICAL BASES FOR PARTICULAR KINDS OF INSURANCE. RISK STATISTICS
3	General organization of statistics. Official statistics		—312.2; 368
	311.3:331.56 Organization of unemployment statistics	313	Statistics of accidents, sickness, their consequences
	311.3(492) Organization of official statistics in the Netherlands		—312.26
.311	International statistics. Figures from international agencies	.1	Accident statistics
.312	National statistics. Figures from national government agencies	.12	Statistics of sickness, diseases
.313	Regional statistics. Figures from regional, provincial authorities, counties (UK), states (federal)	.13	
		32	POLITICS
			—341; 342

32 (cont'd)	32-05 Persons in politics	323	HOME AFFAIRS. INTERNAL POLICY
Special auxiliary subdivisions			—329, 342.71
32.019.5	Public opinion. Political publicity, public relations. Propaganda	.1	Nationalist, popular, ethnic movements and problems. National and ethnic minorities
	—659.4		—312.9; 341.231; 342.72
.51	Influencing of public opinion. Persuasion	.11	Composition of population according to nationalities. Mixing, separation, spread of races, languages, nationalities
	32.019.51:37 Persuasion by means of education		Nationals and subjects abroad
	:654.19 Persuasion by means of broadcasting; radio, television	.113	Racial separation
.52	Ascertaining public opinion	.118	—342.724
.57	Illegal propaganda. Illegal agitation	.12	323.118(680) In South Africa: apartheid
Principal divisions			Movements against particular races or nationalities, e.g.
321	FORMS OF POLITICAL ORGANIZATION. STATES AS POLITICAL POWERS	.13	323.12(=924) Antisemitism
	—308, 342		Movements in favour of particular races or nationalities, e.g.
Special auxiliary subdivisions		.14	323.13(=924) Zionism
321.01	General theory of the state. Theory and philosophy of power. State and territory. Authority and opposition. Usurpation	.15	Chauvinism. Ethnocentricity Racialism
	—323.2; 342.1; 342.2	.153	National, ethnic minorities
.011	Sovereignty	.17	—327.58
.013	Reorganization of states. Territorial changes (boundary changes). Partition of states	.171	Optants (with option of nationalities)
	—341.218	.172	Autonomy, self-determination of nationalities
	<i>For remaining subdivisions of .01, see under 32</i>	.173	Centralism, centralization. Unitarism, unitary state
.02	Form of political activity	.174	Decentralization. Federalism. Efforts at regional autonomy. Devolution
.021	Unorganized	.2	Separatism. Secessionism
.022	Organized	.21	Regionalism (regional emphasis without autonomy or separatism)
Principal divisions			Relation between people and state. Internal political activities
321.1	Origins of government. Ancient, historical forms of government	.215	Involvement of the people in state affairs.
.11	Earliest forms of government. Family rule. Patriarchy. Matriarchy. Tribe. Clan	.22	Positive attitude of citizen to state
	—301.185; 392.3	.23	National celebrations and commemorations
.111	Horde (nomadic). Tribe, clan. Settled communities	.232	—327.32
15	Democracy in antiquity, classical times. Theocracy. Aristocracy. Oligarchy. Patriciate. Plutocracy	.233	Negative attitude of citizen to state.
	321.15:326 Slavery. Slave-owning society	.234	Dissension. Unrest. Rebellion
17	Feudalism. Liege lords. Vassals	.25	Political persuasion. Agitation
.18	Despotism. Dictatorship in antiquity	.26	Political agitation
.6/.8	Modern forms of government	.262	323.232.019.57 Illegal agitation
.6	Undemocratic forms of government.	.263	Assemblies and voting. Declarations.
	Dictatorship in general	.264	Demonstrations. Processions. Protest marches
.61	Absolute monarchy. Absolutism	.268	Petitions
.64	Modern authoritarian regimes based on political and nationalist movements.	.269.3	Passive resistance, non-cooperation, e.g. hunger strikes, (consumer) boycotts, sit-ins.
	Totalitarianism, one-party state. Dictatorship of a single party or group, e.g. military dictatorship	.6	Civil disobedience
	—321.74	.27	Active resistance
65	Syndicalist, corporative state	.28	Boycotts (industrial/political). Blacking
.7	Democracy	.281	Sabotage
	—328	.282	Political strikes. Pickets, picketing
72	Parliamentary democracy. Constitutional monarchy	.283	—331.892
.727	In monarchic state. Constitutional monarchy	.284	Provocation
.728	In republican state. Republics	.285	Riots. Civil disturbance
.74	Socialist democracy. Government by, dictatorship of, the proletariat. Soviet form of socialist state. People's democracy	.4	Unrest. Rebellion. Revolts
.8	Supranational forms of government		Revolution. Overthrow, (violent) change of government. Putsch. Coup d'état
	—341.232		Political persecution. Terrorism
			—343.197; 343.301
322	RELATIONS BETWEEN CHURCH AND STATE. POLICY TOWARDS RELIGION. CHURCH POLICY. EXCLUSION OF LAITY. ANTICLERICALISM. CONFLICT OF CIVIL AND ECCLESIASTICAL AUTHORITY (KULTURKAMPF). CHURCH AS EXERCISING STATE AUTHORITY	324	Political persecution
	—172.3; 261.7; 342.731; 348	325	Terrorism by authorities
.2	Union and separation of church and state	.11	Terrorism against authorities
		.14	Terrorism by political groups against each other
		.2	Acts of terrorism, e.g. criminal violence, assassination, political murder
			Class war. Forms of class warfare
			ELECTIONS. GOING TO THE COUNTRY. PLEBISCITES. REFERENDUMS. ELECTION CAMPAIGNS. ELECTORAL CORRUPTION, MALPRACTICE. ELECTION RESULTS
			—342.8
			MIGRATION. COLONIZATION
			Internal migration. Settlement. Rural exodus, 'flight from the land'
			Immigration. Immigrants. Immigration policy
			Emigration. Emigrants. Emigration policy

325.25	Emigrants. Expatriates. Exiles	327.58	Citizens and nationals abroad. National minorities and optants as foreign-policy problem
.252	Voluntary emigrants		—323.15
.254	Compulsory emigrants. Evacuees. Displaced persons. Refugees. Exiles. Deportees		Activity of international and intergovernmental organizations
	325.254:32 Political exiles, refugees	.7	—341.1; 341.24
	:572.9 Ethnic refugees (from racial persecution)		Political influence, pressure, on other states
.27	Repatriation	.8	Influencing with gifts, favours, inducements
.3	Colonization in general. Colonial policy	.81	Diplomatic influence, pressure
.36	Colonial empires. Colonial imperialism. Colonial federalism	.82	Pressure through secret service, espionage
.4	Colonial administration. Internal policy in colonies	.84	—355.40
.45	Internal organization and administration of colonies and other non-sovereign territories	.88	Subversive agitation. Political intrigues. Demoralization. Fifth column. Diversionism, conspiracy
.5	Kinds of colony and colonization. Penal colonies. Military colonies. Colonies of (economic) exploitation	328	PARLIAMENTS. REPRESENTATION OF THE PEOPLE. GOVERNMENTS
.83	Struggle for independence		—321.7; 342.53
.85	Achievement of autonomy	.1	Parliament and government
.86	Achievement of complete independence	.12	Formation of parliamentary majorities
		.122	Parliamentary majorities
326	SLAVERY	.123	Parliamentary minorities. Opposition. Obstruction
.1	Slave trade. Traffic in girls		Formation of parliamentary pressure groups, lobbies. Agricultural, economic, religious and other groupings
.4	Struggle against slavery	.124	—328.184
.8	Abolition of slavery		Splinter groups. Breakaway groups. Factions
327	INTERNATIONAL RELATIONS. WORLD, GLOBAL POLITICS. INTERNATIONAL AFFAIRS. FOREIGN POLICY	.126	Transfer of allegiance by representatives' (members of parliament) to other parties or factions. 'Crossing the floor'
	—172; 341	.128	Cabinets
.2	Imperialism. Imperialistic policy. Political expansionism	.13	Formation of cabinet. Head of government. Prime minister, premier. Minister presiding, Minister President
	—325.3	.131	Kinds of cabinet. Kinds of government
.3	Internationalism. International movements, objectives	.132	Cabinet crises. Government crises.
	—061.234; 271; 329.7	.161	Confidence, no-confidence votes
.32	International solidarity of working classes		Parliamentary crises
.321	First of May, May Day. International Labour Day	.162	Resignations
.323	International cooperation in Labour Movement	.17	Resignation and dissolution of cabinets.
.33	Movements for harmony, understanding between peoples	.172	Resignation of cabinet members
.35	Unification movements with political basis. Irredentism	.174	Resignation and dissolution of parliaments
.36	Movements for establishment and maintenance of peace between peoples. Pacifist movements. Refusal of draft, conscription, military service. Conscientious objection	.176	Withdrawal of mandates. Dismissal of representatives (members of parliament)
	—172.4	.178	Resigning of mandate. Application for stewardship of the Chiltern Hundreds (UK)
.37	Disarmament movements. Moral, economic, physical disarmament	.18	Relationships among parliaments, governments, administration, the economy, the public
	—341.67; 355.019	.181	Influence of the public on parliaments and governments, e.g.
.39	Movements for integration or alliance on language, ethnic (racial), religious, geographical and other principles		328.181:07 Through the press, newspapers
	—323.1	.182	:654.19 Through broadcasting, radio, television
	<i>Details by colon, race and place auxiliaries, e.g.</i>	.183	Influence of various social and economic groups on parliaments and governments.
	327.39:297 Pan-Islamic movement	.184	Influence of sectional interest groups
	327.39(6) Pan-Africanism		Influence of political parties on governments
	(= 81) Pan-Slavism		Influence through lobbies. Lobbying (from outside)
.5	International blocs. Tension, conflict	.185	—328.124
51	Formation of power blocs, military alliances, treaty organizations (pacts) as sources of conflict. Committed, aligned countries	.187	Corruption
	—341	.188	Relations between parliament and voters, electorate
.54	Cold war		Relations among parliament, the economy and administration. Protection. Nepotism. Family influence
.55	Non-bloc, uncommitted, non-aligned countries	.3	Functions of parliaments
.56	Relaxation of tension, detente. Settlement of international conflicts	.32	Formation of political climate, will, purpose
	327.56:341.6 By international courts of arbitration, tribunals	.34	Legislation. Passing of laws
.57	Peaceful coexistence	.36	—342.52
		329	Control over government. Watchdog function
			POLITICAL PARTIES AND MOVEMENTS

329 (cont'd)	<i>Individual parties may be arranged alphabetically by name or recognized abbreviation following the common auxiliaries of place (alternatively, the common auxiliaries of time), e.g.</i>	330.101 8	Classification and subdivisions of economics. Theoretical, practical. Pure, applied. General, special. Relation of economics to theory of political economy. Interrelations of political economics, private economics, business economics (commercial economics). Relation of general to special political economics.
	329(410)Lab British Labour Party		Sector economy
	(430.1)SPD Sozialdemokratische Partei Deutschlands in German		Economic phenomena and laws
	Federal Republic	.11	Concept of the economy. Definitions
	(438)PZPR Polska Zjednoczona Partia Robotnicza (Polish United Workers' Party)	.111	Manner of production
	(73)Dem Democratic Party, USA	.2	Factors, determinants in production.
		.4	Productive forces
Special auxiliary subdivisions		.42	Distribution of factors in production
329.051	Government parties. Parties in power	.44	Exchangeability of factors in production
.052	Opposition parties	.6	Production ratios, proportions
.053	Splinter parties	.62	Property ratios as production ratios.
.054	Satellite parties		Ownership
.055	Tendencies within parties. Wings	.66	Socio-economic sectors
.058	Attitudes of parties to particular problems	.8	Relation of productive forces to production ratios
Principal divisions			Purpose, aims of economic management
329.1/.6	Classification of political parties and movements according to general political outlook and aims	.112	Satisfaction of demand
	<i>For parties and movements with several political aims, the apostrophe ' may be used to combine the subdivisions of 329, arranged in order of importance, e.g.</i>	.1	Creation of profit
	329.11'21 Conservative-monarchist attitude (from 329.11 and 329.21)	.113	Concept of laws, principles in economics.
	<i>To bring together movements in a particular country, the common auxiliary of place may be intercalated after 329, e.g.</i>	—115	Predictability. Regularity. Economic laws
	329(450).15 Italian Communist Party and movement	.117	Econometrics
		.12	Subjects of economic management: individuals, groups, state
		.122	Objects of economic management. Goods. Services
		.123	Free goods
		.3	Economic goods
		.4	Stocks
		.5	Goods for consumption (consumables)
		.6	Goods for use (durables)
		.7	Services
.11	Conservative attitude		Means of production. Capital goods. Fuel.
.12	Liberal attitude		Raw material
.13	Progressive attitude. Revolutionary attitude	.13	Profitability. Economic principle. Utility.
.14	Socialist attitude. Social-democratic attitude		Value. Value principle
.15	Communist attitude		—338.5
.17	Nationalist attitude	.131	Basis of profitability. Economic principle.
.18	Fascist attitude		Economic calculation
.21	Monarchist attitude	.5	Economic utility effect. Social utility
.23	Republican attitude	.7	Risk, uncertainty, in economic sense
.3	Parties and movements with religious outlook	.132	Utility. Use. Usefulness. Exploitability.
	329.3:28 Christian outlook		Usability. Marginal utility. Preference value
	:297 Islamic, Muslim, Mohammedan outlook	.133	Wares. Goods. Utility value and exchange value. Economic value
.36	Parties and movements with anti-religious, atheist, anti-clerical outlook	.1	Utility value
.4	Parties and movements with predominantly ethnic, racial, linguistic aims	.2	Income value. Investment value
.42	Racial separation (apartheid) movements	.3	Exchange value
.61	Illegal parties and movements	.4	Replacement value
.63	Parties and movements with special interests	.7	Measurement of value
.7	Political and national movements and alliances in various areas	.135	Value principle
.71	Political mass organizations, e.g. in 'peoples' democracies'. 'Popular Front', 'National Front' etc. (Not National Front in UK, — 329.18, 329.42)	.138	Theories of value
.73	National movements in general	.14	Capital. Funds for material production
.75	Soldiers' and veterans' movements		Special auxiliary subdivision
.8	Party structure. Party strategy. Party tactics	330.14.01	Theories of capital. Concept and definition of capital
33	ECONOMICS. ECONOMIC SCIENCE	Principal divisions	
330	ECONOMICS IN GENERAL	330.142	Forms and kinds of capital
.1	Science of economics. Basic economic concepts, theory. Value. Capital. Funds	.1	Free capital
.101	Science of economics in general. Economics and its problems, uncertainties. Object and methods of political economy	.2	Invested capital
.52	Statics. Dynamics. Equilibrium	.21	Productive capital
.541	Macroeconomics	.211	Investment capital. Fixed capital
.542	Microeconomics	.4	Amortisation
		.212	Circulating capital
		.22	—658.14/.17
		.23	Loan capital. Working capital.
		.24	Interest-bearing capital. Money lent at interest. Bank capital
		.26	Finance capital. Financial oligarchy. Finance capitalism
		.27	Trade capital
		.28	Working capital
			Commodity capital
			Fictitious capital. Watering stock

330.143	Capital profit. Rate of profit. Profit from capital investment. Increase in value. Value added. Rate of appreciation —336.78	330.342.12	Slavery as economic system
.144	Distribution of capital: national, international	.13	Feudal economy
.145	Circulation of capital. Capital transfer	.14	Capitalist economy
.146	Accumulation of capital. Capital formation	.151	Socialist economy
.15	Natural factors. Soil. Nature. Natural forces. Natural wealth	.152	Communist economy
.16	Physio-psychological factors. Economic behaviour, conduct. Demands. Wishes. Inhibition, restraint. Economic instincts. Intuition	.172	Free economy. Laissez-faire
.163	Demands	.173	Controlled economy. Interventionism
.11	Individual demands	.21	Undeveloped (underdeveloped) economy. Pre-industrial economy
.12	Collective demands	.22	Developing economy. Industrialising economy
.13	Necessities of existence	.23	Developed economy. Industrialized economy
.14	Cultural demands	.24	Fully developed economy. Highly industrialized economy
.15	Demands for luxuries	.3	Economic stages from individual economy to world economy
.3	Dynamics of the economy. Economic movement	.4	Economic stages according to other structural principles. List, Hildebrand, Rostow etc.
.31	Economic circulation. Re-creation, re-use	✓.35	Economic growth
.32	Re-creation of capital. Expansion and re-use	Special auxiliary subdivision	
.322	Investments. Capital formation	330.35.011	Concept and definition of economic growth
Special auxiliary subdivisions		Principal divisions	
330.322.01	Investment theory	330.352.2	Extensive growth
.014	Volume of investment	.3	Intensive growth
.2	Gross investment	.354	Decisive factors in economic growth, e.g. 330.354:330.322 Investment as growth factor
.3	Net investment	.356	Proportions of factors in economic growth, relation to each other
.6	Investment quota	.2	Capital coefficient. Capital-output ratio
Principal divisions		.3	Capital productivity
330.322.1	Investment according to source of finance	.4	Capital-intensity. Capital-labour ratio
.2	Investment in material production	.7	Production function
.3	Investment other than in material production	.357	Rate of growth in the economy. Growth tempo
.4	Investment in proportion to investment requirement. Overinvestment. Underinvestment	.36	Economic equilibrium. Proportionality of the economy
.5	Profitability, efficiency of investments. Return on investments	.368	Economic growth without equilibrium. Unbalanced, disproportionate growth. Distorted economy
.54	Measurement of investment profitability. Investment accounting. Estimation of returns on investments	.5	National property. National assets. Social product. Balance of the economy. Estimation of national product
.55	Reflux period of investments. Term of returns	Special auxiliary subdivision	
.7	Multiplier effect	330.5.057.7	Input-output analysis
.8	Acceleration effect	Principal divisions	
.9	Disinvestment. Realization, consumption of capital	330.52	National wealth. National property. National assets
.33	Cyclic behaviour of trade. Business cycles —338.1	.522	Real, actual national wealth. Actual assets of nation
Special auxiliary subdivisions		.2	Basic funds and means
330.33.01	Business trends and crisis theory	.4	Stocks, reserves. Material in hand
.012	Cyclic movement. Oscillation of business trends. Trade cycle. Business cycle. Economic cycle. Cyclic phenomena	.6	Property of the population. Personal property
.015	Causes, origin of cyclic movements	.524	Potential national wealth. Potential assets of nation, e.g. 330.524:553 Mineral resources. Mineral wealth
Principal divisions		.526	Division, distribution of national wealth. Distribution of assets
330.34	Economic development	.5	Redistribution of wealth. Principles of policy towards property —338.23
Special auxiliary subdivision		✓.532	National accounts. Balance of the economy
330.34.014	Kinds of economic development. Static. Progressive, expansionist. Growth	.534	Estimation of national product
Principal divisions		.54	Social product
330.34.1	Factors in economic development, e.g. 330.341:32 Political factors	.544	Application of social product. Use of production
.1	Development of productive power. Technical progress. Innovation	.55	Gross national product. Gross domestic product
.2	Development of production ratios. Institutional changes	.56	National income. Total private income. Net domestic product
.4	Structural alterations	.564	Division, distribution of national and private income
.42	Alterations in the proportions of branches of the economy to each other. Structure of the economy according to economic sectors, branches. Division of labour in society. Industrialization	.2	Total income of populace
.44	Concentration. Centralization	.22	Private income from wealth, from enterprise
.46	Deconcentration. Decentralization. Hiving off	.24	Private income from individual activity
.342	Developmental level. Stages of development of the economy. Economic systems 330.342.001.36 Comparisons of economic systems	.26	Private income from dependent activity
.11	Primitive economic systems	.4	Income of the state
		.6	Income of public enterprises in planned, socialist economies

330.564.62	Income of state enterprises, of nationalized industries	331.012	Labour as factor in production
.64	Income of cooperative enterprises	.013	Importance, utility, value of labour. Dignity of labour
.565	Redistribution of national and private income	.015.1	Organization of labour, of work. Simplification of work
.566	Forms of income. Natural income (income in kind). Monetary income	.11	Design and adaptation of tools, machines, for humans. Ergonomics
.567.2	Use of income. Expenditure. Consumption.	.12	Design, layout, of workplace
.4	Savings. Economy of private households	.13	Arrangement of work flow. Sequence of operations. Arrangement of materials in workplace
.6	Social consumption. State expenditure	.14	Work study. Time-and-motion study.
.59	Accumulation of income. Capital formation.	.018	Quantification of work
.8	Reserves of wealth	.021	Quality differences in work. Degree of quality
.8	Standard of living	.1	Kinds of labour
.81	Economic theories. Academic doctrines, dogmas	.2	—Table I(i).007; I(k)-057
.811	Pre-nineteenth-century economic theories	.3	Free, unrestricted, independent labour.
.811	Economic theories of antiquity, of classical times. Economic theories of the mediaeval period, Middle Ages	.4	Autonomous labour. Freelance work
.812	Mercantilism and other economic doctrines of the sixteenth and seventeenth centuries	.5	Dependent labour. Tied labour. Controlled labour
.813	Physiocracy and other economic doctrines of the eighteenth century	.6	Professional work
.82	Classical schools of economics. Liberalism.	.811	Creative work
.82	Ethical, romantic, historical schools	.812	Supervisory work. Managerial work
.821	Industrial system: Smith, Ricardo, J B Say, Thünen etc.	.815	Executive work
.822	Liberal optimists: Cobden, Bastiat, Carey etc.	.817	Difficulty, complexity of work. Skilled, unskilled labour
.823	Moderate individualism	.819	Physical demands of work: light, heavy work
.824	Doctrine of the free economy: Gesell	.821	Monotonous work
.826	Ethical school: Sismondi	.822	—331.055.3
.827	Romantic, neoromantic school: Müller, Haller, Spann	.831	Dangerous, hazardous work
.828	Historico-sociological school. National reaction. Protectionism: Carey, List, Roscher, Hildebrand, Schmoller, Bücher, Sombart, Comte, Weber etc.	.832	Dirty work
.83	Economic doctrines of the twentieth century and their predecessors in the nineteenth century	.022	Physical work. Manual labour
.831	Psychological school. Marginalism.	.024	Mental, intellectual work. Brain-work
.831	Neoclassical school. Neo-Marginalism.	1	Productive work
.831	Neo-Liberalism. Welfare economics:	.2	Non-productive work
.832	Böhm-Bawerk, Mises, Haberler, Marschall, J B Clark, Pigou, Perroux, Röpke etc.	.3	Attitude to work. Morale at work. Job satisfaction. Discipline at work
.832	Mathematical school. Theory of equilibrium.	.35	Human working capacity. Manpower.
.834	Econometric school: Walras, Pareto, Wicksell, Samuelson, Tinbergen, Frisch	.37	Consumption and replacement of capacity
.834	Keynes and the Keynesian movement	.04	Individual work capacity
.835	Theories of economic growth: Harrod, Domar, Kaldor etc.	.041	—658.3
.836	Technical economic doctrines. Technocracy	.042	Collective work capacity. Work capacity of populations, of groups
.837	Institutionalism: Elly, Commons, Veblen, J M Clark	.043	Work performed. Efficiency. Output
.838	French inductive school	.2	Productivity
.84	Pre-Marxian socialist schools. Utopian socialism. Fourierism	.3	Increased output
.85	—141.81	.5	External influences on work. Working environment
.85	Marxist-Leninist economic doctrine	6	Technical factors. Kind of work
.86	—141.82	.044	Running of the firm, and its effect.
.86	Social-democratic and non-Marxist socialist economic theories: Collin	.045	Atmosphere at work
.87	Social-legalist, solidarist, corporative, religious, cooperative, anthroposophic, collectivist, planning-based economic doctrines	.048	Physical and chemical factors
.87		.1	Climate. Weather
.87		.2	Atmospheric pressure
.87		.5	Light, brightness factors. Lighting.
.87		.6	Illumination
.87		.044	Temperature. Heat. Warmth. Ventilation.
.87		.048	Humidity
.87		.1	Length of work period. Hours of work.
.87		.2	Working day
.87		.5	Rest periods. Breaks
.87		.05	Factors not immediately connected with the firm or workplace
.87		.053	Social, political, economic factors
.87		.054	Effect of employee's private life
.87		.6	Travel conditions. Journey to work
.87		.8	—Table I(k)-057.62
.87		.055.2	Factors associated with the employee. Personal attributes etc.
.87			—658.3.05
.87			Physical, bodily factors. Health, strength etc.
.87			Individual's working rhythm
.87			Psychological factors. Attentiveness, concentration. Interest in the job
.87			Effect of group working. Teamwork.
.87			Cooperativeness, team spirit
.87			Interest in the job. Enjoyment of work.
.87			Indifference, offhandedness
.87			Effect of variety

331.055.3	Effect of monotony —331.021.815	331.152.2	Works committees. Negotiating committees
.4	Effect of fatigue	.3	Consultative councils. Staff councils. Mutual Trust Councils
Principal divisions			Mediation
331.1	Relations between business firms and employees. Industrial relations. Human relations. Labour relations	.154	Arbitration. Arbitration awards
.11	Employees. Contracts of employment.	.155	Incentives to personnel for higher productivity. Incentive schemes
.113	Recruitment. Engagement. Appointment	.158	—330.16; 331.876
.114	Aspects of appointment, e.g. official prescription, legislation etc., concerning the handicapped, young persons etc.	.16	Resolution of labour disputes within the firm. Internal negotiating committees
.114	Terms, conditions, of employment.	.17	—351.83
.115.1	Requirements, stipulations: professional, health		Various arrangements made by employers for employees' benefit
.2	Recruitment. Enticement, 'poaching' of staff		—331.835
.6	Applications for jobs		331.17:027.6 Works libraries
.62	Aptitude tests	.171	:336.722 Works savings schemes.
.62	Testing of general fitness and ability. Medical examination	.174	Loan schemes
.63	Testing of professional competence and abilities	.2	Pension funds. Benevolent funds
.116	Contracts of employment. Agreements	.21	—368.4
.2	Individual contracts of employment	.211	Profit-sharing. Small shareholdings
.3	Collective contracts of employment		Salaries. Wages. Remuneration. Pay
.4	Agreements on rates of pay	.214	General questions
.5	General agreements. Frameworks of agreement	.1	Method of payment. Time of payment, pay day. Advances on wages (subsistence money, 'subs')
.12	Entry to a firm. Commencement of employment	.2	Economic theory of wages
.122	Induction. Familiarization. Probationary period	.3	Iron law of wages: Lassalle
.123	Training and employment record. Record books. Professional documents, credentials.	.4	Wage-fund theory: J S Mill
.125	Licence to work. Work pass	.51	Theory of productivity
.5	Level of seniority, grade, rank. Promotion	.52	Doctrine of surplus value. Exploitation.
.6	Rank according to salary. Rank according to performance, achievement	.7	Power-political wage theory
.126	Records of personnel assessment.	.215	Doctrine of falling wage ratio (proportion of wages to national income)
.4	Appraisals. Personal files	.1	Doctrine of rising wage ratio (proportion of wages to national income)
.13	Turnover of personnel. Staffing levels, fluctuation. Commitment to the firm. Staff loyalty	.2	Economic principle of distribution. Payment according to work
.133	Exchange of jobs within the firm.	.3	Salary level. Wage level
.133	Redeployment, reallocation of staff	.4	Relation of pay to performance appraisal.
.135	Termination of contract. Notice of dismissal. Resignation	.5	Payment according to desert, merit
.2	Compensation. Severance payments.	.6	Fluctuations in salary and wage levels. Pay increases, rises. Pay reductions, cuts
.3	Redundancy payments. 'Handshakes'	.7	Relation of pay to production costs
.4	Termination of contract by employer	.216	Relation of pay to cost of living. Nominal pay.
.5	Temporary dismissal, suspension Leave of absence. Suspension on pay	.218	Real pay
.8	Dismissal. Discharge. Sacking		—331.83
.15	—331.148.8		Maximum pay. Minimum pay. Living wage.
.152	Entitlement to notice of dismissal Minimum period of notice	.2	Subsistence level
.1	Termination of contract by employee.	.3	Gross pay. Net pay. Take-home pay
.2	Resignation		Continued payment of wages in case of sickness, accident etc.
.3	Cancelled shifts. Short-time working.		Use of more than one source of income.
.4	Shortage of work		Double and multiple earnings
.5	Reinstatement		—Table I(k)-057.114
.6	Works regulations and procedures		Increase of income by multiple employment of the same individual
.7	Encouragement of proposals for improvements. Suggestions schemes		Increase of income by cumulation of earnings of various members of the family. Collective or family income. Total earnings of man and wife
.8	Punishment. Disciplinary procedure		Payment systems. Wage scales, indexes etc.
.9	Warnings. Reprimands		Payment systems. Tariff systems. Wage scales
.10	Monetary penalties. Wage and salary reductions. Deduction from, docking of, pay		Index-linked pay. Pay related to cost-of-living index etc.
.11	Transfer to a lower, subordinate, position or to a lower-paid job. Demotion. Downgrading		Bonus systems. Bonuses. Tips. Allowances.
.12	Expulsion from workplace. Dismissal as disciplinary measure		Other additions to basic pay
.13	—331.135.3		Gratuities. Handsels. Christmas and holiday bonuses
.14	Relations between management and workforce within the firm		Tips
.15	Cooperation. Copartnership. Worker representation, participation. Councils. Committees		Family allowances (as wage element).
.16	Employee participation in management, in decision-making		Supplements for dependents
			Various indemnities and supplements (e.g. local weighting)
			Compensation funds. Funds for making up wage loss
			Forms of payment. Basis of calculation
			Piecework payment. Piece rate. Contract payment. Payment by result. Job-work

331.232	Time-based payment. Pay per unit of time.	331.811.31	Full-time working. Full working day
	Hourly rate. Daily rate. Weekly wage. Monthly salary. Annual salary	.314	With alternating starting time. Shift work
	331.232"3752" Overtime pay	.32	Short-time working. Part-time working
.235	Methods of payment. Truck system	.8	Free time. Leisure time
.2	Cash payment	.813	—331.85; 379.8
.5	Payment in kind	.814	Sunday working. (Bank) holiday working
.236	Subcontract system. Group contract payment. Commission	.815	Overtime
.24	Share of profit. Royalty. Percentage. Cut	.816	Labour festivals and holidays. May Day (May 1st). Bank holidays
	—331.174	.817	Absence without leave. Absenteeism
.25	Age benefit. Retirement pensions. Annuities. Superannuation schemes. Reservists' pay (half-pay). Cash benefits at retirement, lump-sum benefit	.2	Absence with leave. Authorized absence
		.4	Absence due to sickness, accident(s)
.27	Professional remuneration. Fees, e.g. of doctors, lawyers, architects, writers, artists	.5	Leave entitlement. Annual leave. Special leave for particular reasons
.28	Organization of wages and payments. Wage planning	.6	Works holidays. Holidays during works closure
.5	Labour market. Employment	.8	Leave and works holidays because of unusually severe weather. Cancellation of work because of heat, cold etc.
Special auxiliary subdivision		.82	Unpaid leave
331.5.024.5	Employment policy. Policy towards labour market	.821	Working conditions. Workplace. Offices. Shop floor
Principal divisions			Dangerous occupations. Unhealthy occupations
331.52	Structure of the labour market. Geographic distribution of workforce, of workplaces. Full, partial employment	.822	Health and hygiene arrangements. Precautions against occupational health hazards and diseases. Medical treatment and care
.53	Employment mediation, placement (e.g. by employment agencies, bureaux, labour exchanges, job centres)	.823	—613.6; 628.5
.54	Vocation. Choice of occupation. Vocational problems. Dying and nascent occupations. Job with a future	.825	Safety regulations at work. Occupational hazards. Industrial accidents
.543	Analysis of vocation. Vocational profile	.827	—368.41; 614.8
.548	Vocational guidance, advice, counselling		Firm's liability. Employers' liability.
	—37.048.4		Compensation
.55	Mobility of workforce. Geographical mobility. Occupational mobility	.83	Improvement of working conditions. Washing facilities. Canteens, restaurants etc. Planning, layout, of working area
.56	Unemployment	.831	Economic and social situation of employees. Living standard. Wages of employees
.562	Structural unemployment. Technological unemployment	.832	Cost of living
.563	Cyclic unemployment	.833	—331.215.4; 331.222
	—330.33	.835	Shops, (discount) warehouses for employees. Company stores
.564	Seasonal unemployment	.836	Dwelling-places from work point of view. Work catchment area. Company housing
.567	Consequences of unemployment. Measures to combat results	.837	Feeding and clothing of employees. Canteens. Clothes issues
.57	Prevention of unemployment. Relief of unemployment	.85	—331.827; 64.024.3
.572.2	Maintenance and support of existing workplaces	.86	Social welfare for employees. Assistance with unusual responsibilities, burdens, (personal) problems etc.
.4	Creation of new workplaces. Job creation		Transport of employees. Workers' trains, works buses etc.
.573	Reduction of working hours		Arrangement of leisure, of leisure activities. Recreational facilities
.574	Elimination of certain groups of employees. Extended education (raising of school-leaving age). Early retirement. Restriction of female, foreign labour etc.		—027.4; 37; 379.8
.578	Labour service. Work as form of national service		331.85:725.85 Company sports facilities, courts, gymnasiums etc.
	—37.068		Organization of training. Technical training. Apprenticeships
58	Encouragement of acceptance of available work. Filling of vacancies		—374; 377
	—331.86.066		331.86:621.791 Training of welders
.81	Working hours. Leisure time. Shifts. Time-off. Leave. Holidays	Special auxiliary subdivision	
.811	Working hours in particular time-divisions	331.86.066	Transfer to other occupations. Retraining of workforce
	<i>Details by common auxiliaries of time, e.g.</i>	Principal divisions	
	331.811"344" Day work	331.861	Apprentice training. Basic training. Induction
	"345" Night work	.862	Apprentice schools. Craft schools. Trainees' workshops. Offices for trainee instruction
	"427.08" Eight-hour day	.863	Arrangements for further education, betterment of manual workers etc. Extension, day-release, schooling. Refresher courses. Retraining
	"437.3" Three-day week		—331.86.066
.1	Work without fixed number of working hours, and without fixed schedule or timetable	.865	Educational grants. Scholarships. Bursaries
.2	Work with fixed number of working hours but without fixed schedule or timetable. Flexible time	.867	Admission of workers from abroad to training and instruction (foreign nationals, immigrants, guest-workers' etc.) Familiarization of foreign workers to local work practices and relations
.22	With completely open schedule		
.24	With schedule variable within limits. Sliding timetable		
.3	Work with fixed number of working hours and fixed schedule or timetable		

331.868	Training of foremen, overseers, supervisors.	332.02	Land and property policy
	Promotion of workers	.021.8	Land and property reform
.87	Organization of work. Division of labour	Principal divisions	
.872	Work division, allocation. Division of labour.	332.2	Property. Ownership of land
.873	Differentiation of tasks. Specialization		—347.23
	Unification of tasks. Allocation of different	.22	Acquisition of property. Transfer, disposal, of
	kinds or stages of work to a single operator.		property
	Non-specialism. Generalism	.24	Kinds of ownership of land
.874	Group labour. Teamwork. Assignment of	Special auxiliary subdivisions	
	several workers simultaneously to a single	332.24.012.32	Private ownership of land: individuals,
	task or product		companies
.875	Mechanization and automation of work.	.33	Public ownership of land: state, community
	Production lines. Assembly lines.	.34	Collective ownership of land: collectives,
	Conveyor-belt system. Flow production		cooperatives
.876	Worker initiatives in work organization	Principal divisions	
.2	Work activists	332.248	Ownerless land. Abandoned property
.3	Voluntary work brigades. Subbotniks	.25	Restricted, limited ownership. Entailed
.4	Competition at work, e.g. socialist		estates. Homestead law
	competition, voluntary work pledges,	.26	Incursions on ownership. Compulsory
	Stakhanovite system		acquisition. Requisition. Expropriation.
.5	Socialist (communist) work brigades		Compensation
.6	Inventions and suggestions schemes as		—347.234; 351.712.5
	system of work, e.g. Movement of Inventors,	.27	Protection of property, of ownership
	Innovators and Rationalizers	.28	Leasehold property. Leased land
.877	Internal communication and information	.3	Land use
	work. Efficiency propaganda, publicity	.32	Land not suitable for use. Sterile land.
.88	Associations of employees and employers.		Wasteland
	Trade unions. Employers' federations.	.33	Usable, exploitable land. Land resources
	Professional associations	.34	Intensity of land use
.881	Trade unions	.36	Factors influencing land use. Environmental
	331.881:622 Miners' unions		factors
.882	Employers' federations	.362	Natural factors in land use
	331.882(410) in UK. Confederation of	.363	Public planning decisions as factors in land
	British Industry (CBI)		use
.883	Joint associations of employers and	.364	Social factors in land use
	employees	.365	Economic factors in land use
.884	Trade and professional associations of	.368	Infection, contamination, pollution of land
	freelance workers, of the self-employed		—351.777.6; 614.7; 628
.885	Professional associations of (skilled) manual	.37	Measures to maximize, optimize, maintain
	workers, craftsmen. Trade and craft guilds,	.38	use
	companies		Kind of land use
	—334.782		—332.24.012...
.889	Compulsory, obligatory associations.	.5	Land requirement. Long-term planning of
	Compulsory craft guilds		land use
	—331.123		—332.02; 711
.89	Labour disputes. Industrial disputes.	.6	Land value. Value of plots, sites, holdings.
	Strikes. Lock-outs		Real-estate value. Productivity. Rents
	—343.46	Special auxiliary subdivision	
.892	Strikes. Pickets. Strike fund	332.6.055	Changes in value of land
	—323.264	Principal divisions	
.893	Other kinds of industrial action (furtherance	332.64	Ascertainment of value. Land valuation
	of disputes) by employees. Go-slows.	.66	Produce, yield of land. Land productivity
	Work-to-rules. Occupation of workplaces by	.68	Returns from land. Rents. Ground rent.
	workers (sit-ins). Sabotage. Passive		House rent
	resistance. Boycotts. Blacking	.7	Trade in land, in real estate
	—323.262	.72	Property market. Market in land, in real
.894/.897	Furtherance of disputes by employers		estate
.895	Lock-outs	.74	Land prices. Market price of land, of real
.896	Measures to combat internal effects of		estate
	strikes. Employment of outside workers,	.76	Trade in land and in real estate
	blackleg labour. Distribution of vacant jobs		independently
	among those willing to work. Strike-breakers	.77	Combined trade in land and real estate
	Volunteer replacement labour		
.897	Assistance to employers during strikes.	334	ORGANIZATIONS, ARRANGEMENTS,
	Financial support etc.		AGREEMENTS FOR ECONOMIC ACTIVITIES
.898.1	Use of troops, of (armed) forces as labour in		COOPERATIVE SYSTEMS
	industrial disputes	.1	Cooperatives in general. Mutual benefit
91	International regulation and organization of	.2	societies
	labour		Credit funds. Cooperative credit, loan,
	—351.83		societies
.94	Supervision of industrial regulations.		—336.773
	Factory inspection. Labour regulations	.3	Cooperative insurance societies
	—331.821; 613.6; 614.8		334.3 ≈ 368, e.g.
.97	Rewarding of workers by the authorities,		334.311 Cooperative fire insurance
	associations, firms etc. Awards.		.32 Cooperative transport insurance
	Decorations. Medals		.33 Cooperative life insurance
			.338.2 Cooperative sickness insurance
			(health insurance)
			.35 Cooperative agricultural insurance
332	LAND. PROPERTY. REAL ESTATE		
Special auxiliary subdivisions			
332.01	Theory of land and property		

334 4	Economic cooperatives: trade, commerce, business, industry, the professions, agriculture, fisheries	Special auxiliary subdivisions	Special auxiliary subdivisions
		336.07	Financial organs, organizations. Financial administration
Special auxiliary subdivisions		336.07 ≈ 35.07	
334.4.095.1	Buying, purchasing, procurement cooperatives	Principal divisions	
.3	Agricultural production cooperatives	336 1/5	Public finance. Government, state finance. Revenue
.5	Marketing, selling cooperatives	.12	Public budgets. Government, state budget. Budgets of public authorities, e.g.
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334.5	Consumer cooperatives	121	Budgetary plans and planning
.6	Total cooperatives. Producers' cooperatives. Workers' cooperatives	1	Composition. Division. Income. Expenditure
.7	Forms of business organization. Economic alliances	.2	Preparation of budgetary plan. Budgetary planning period: annual budget etc. Financial periods: financial year etc.
	—339; 347.7	.3	Budgetary decision-making. Discussion
.72	Enterprises, firms, according to ownership and source of finance. Concrete legal forms of organization	.34	Voting. Passing of budget bill. Enactment
722	Private undertakings. Private firms	.36	Finance laws
.723	Enterprises, firms, with public participation	.38	Reconciliation of individual aims and plans in a budget
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.724	Public undertakings. Publicly owned organizations	.6	Kinds of budget
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.728	Leased, hired, tenant firms	.62	Extraordinary budgets
.74	Forms of organization in the manufacturing industry	.65	Supplementary provisions. Addenda to budgets
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.743	Small industries. Small manufacturing concerns. Putting-out system	.8	Budget accountancy. Balancing, closing, of accounts
.744.2	Factories. Factory system	.126	Execution of budgetary plan. Submission and publication of accounts. Audit
.3	Combines. Conglomerates	.1	Accounting year. Business year
.746	Forms of organization according to size and scope	.2	Administration of public finances
.2	Large businesses	.3	Gathering of revenues from taxes, duties, customs and excise, public monopolies, dues etc.
.3	Medium-sized businesses		—336.127.43; 336.2
.4	Small businesses	.34	Forcible pursuit of revenues Distraint
.5	Miniature businesses	.4	Expenditure. Expenses
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.751	Mergers. Amalgamations of firms	.42	Disbursement
.752	Loose arrangements for cooperation for various purposes. Agreements between entrepreneurs in general	.5	Control, supervision, of financial officials. Responsibility for book-keeping, for audit. Cash auditing
.753	Cartels	.55	Authorities charged with auditing. Courts of audit. Audit offices
.754	Syndicates	.56	Political, parliamentary control of budgets
.755	Special-purpose organizations, e.g. 334.755:69 In construction: building partnerships, copartnerships	.561	Financial statements
.756	Holding companies	.562	Reports of auditing authorities. Auditors' statements
.757	Combines. Trusts	.563	Examination of general statements and accounts by special committees
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762	Territorial, spatial, alliances	.127	Budgetary income and expenditure
.763	Cooperative arrangements for production of particular goods, products	.1	Ordinary income and expenditure. Financial adjustment
.764	Alliances according to branch of industry, speciality	.2	Extraordinary income and expenditure
.767	Alliances according to degree of independence of participant	.4	Income. Receipts
.78	Economic alliances according to authority, power, under public law	Special auxiliary subdivisions	
.782	Trade and craft guilds, companies	336.127.4.025.31	Receipts from natural persons, individuals
	—331.885	.32	Receipts from legal persons, bodies corporate
.784	Corporations. Bodies corporate	Principal divisions	
	—06; 342.54	336.127.43	Receipts, revenues, from taxes, duties, customs and excise, monopolies, dues etc.
.786	Employers' organizations		—336.126.3; 336.2
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.788	Economic organizations with administrative function	.2	Taxes. Duties. Levies. Excise. Dues
.2	Chambers of commerce, of industry, of trade		—336.126.3; 336.127.43
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336.2 (cont'd)	336.2:347.143 Limitation of tax liability. Negative prescription	Principal divisions 336.21/.26	Taxation systems according to nature of tax —336.27
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336.2.01	Theory of taxation. Productivity, tax yield. Tax burden, liability	.21	Direct taxes. Taxes on profits, returns; earnings, income; possessions, property; wealth
.015	Tax penalties —336.2.04; 343.359	.211	Tax on real estate. Land tax. Rates —336.245
.022	Taxation authority. Right, legal power, to levy taxes	.1	Cadastral, land register (for taxation purposes)
.023	Bodies entitled to tax: sovereign state, member state (of federation), province, county, municipality, district, borough etc.	.2 .3	Taxes on land, ground, site Taxes on houses, buildings, built-up property. Domestic rate
.024	Entities liable to taxation	.4	Special taxes on increased land value. Betterment tax
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.3	Legal persons, bodies corporate	.1	Taxes on rents
.025	Taxable objects	.4	Taxes on particular parts of dwelling or fittings, e.g. window tax
.3	Persons: natural, legal. Bodies corporate	.5	Taxes on vehicles 336.213.5 ≈ 629.1, e.g. 336.213.513 Tax on motor vehicles, automobiles, cars. 'Road tax' (from 629.113)
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.7	Customs tariffs as basis of trading agreements		Special auxiliary subdivision
.9	Others, e.g. composite tariffs	336.71.078.3	Supervision of banks
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.06	Technical questions of customs administration. Formalities, procedures	.712	Provincial banks. Municipal banks
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.42	Income from the sale of state property		Special auxiliary subdivisions
.43	Premiums on state investments	336.717.061	Regular banking operations. Credit transactions
.44	Yields and proceeds from confiscations, bequests, gifts, lost property, lapsed claims and debts etc., as sources of finance	.063	Supplementary, occasional banking operations. Transactions other than credit
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.115	Drawing-up of papers. Completion of forms	.26		Savings equipment. Money boxes, ome banks. Savings clocks. Savings tokens, jettons
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.3	Forms for transfer. Credit-transfer slips. Giro forms	.34		Supplementary instructions of mandator or mandatary
.4	Cheque forms. Printed cheques	.35		Development and state of savings-account balance. Credit entries. Debit entries. Idle savings accounts
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.22	Bearer shares	.788	Rate of interest
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.33	Structure of production. Product variety. Diversification. Range. Speciality	.53	Price policy
.34	Fluctuations in production	.532	Government price policy. National price policy. Supranational price policy. Kinds of official price
.35	Production in relation to demand. Overproduction. Surplus. Underproduction. Shortfall	.42	Official price fixation. Price regulations
.36	Production according to technical sophistication and volume	.421	Maximum price. Price ceiling
.362	Production by manual labour	.423	Minimum price
.363	Mechanized production. Production by machine	.425	Fixed price
.364	Automated production	.57	Price movements
.366	Unit production. Production in series. Production from prefabricated parts	.58	Political-economic costs. Social costs
.367	Continuous production. Continuous processing. Line production. Conveyor-belt production		—657.47
.368	Mass production		TRADE. INTERNATIONAL ECONOMIC RELATIONS. WORLD ECONOMY. GLOBAL ECONOMY
4	Production and services according to economic sectors	339	—347.7
	—334.742		General questions of trade and commerce. Market
.43	Agriculture as branch of economics	.1	339.1-051 Traders. Dealers. Merchants
.431	Agrarian conditions. Agrarian situation. Agrarian structure	.13	—347.712
.432	Agrarian production as branch of economics		Market in general. Market analysis. Supply and demand. Competition
		Special auxiliary subdivisions	
		339.13.012	Forms of market. Market structure
		.1	Transparency of market. Discernibility of market trends
		.42	Free market. Fully competitive market
		.43	Controlled market. Market with limited competition
		.432	Oligopolistic market
		.434	Monopolistic market

339.13.017	Market analysis. Market research	339.176	Individual shops. Retail businesses. Retail stores
.025	—303.425; 658.8.012.1	.177	Trade in open spaces. Trade on board vehicles. Trade not restricted to a particular site. Door-to-door selling. Hawking. Peddling.
.2	Controls. Supervision	.178	Street vending
.3	Approval. Permits. Licences. Protection		Intermediary trading organizations. Formal trading agreements with persons.
.5	Quota-fixing. Quotas. Allocation		Concessionaires. Licensees. Agents. Factors.
.87	Taking into public ownership. Nationalization		Authorised dealers. Distributors
.88	Restoration to private ownership. Denationalization. Reprivatization	.18	Economic aspects of commerce. Terms and conditions of business. Forms of exchange and distribution of goods. Terms of delivery. Terms of settlement, payment
	—338.246.025		—339.162; 347.7
.027	Material assistance. Furtherance. Guarantees. Subventions. Grants. Subsidies. Public provision of credit. Restoration to profitability	.185	Exchange. Barter
.028	Moral support		—347.452
.053	Market equilibrium	.186	Purchase
.1	Disturbances of market equilibrium	.187	Sale
Principal divisions			—347.451; 658.8
339.132	Supply	.6	Commercial deals other than exchange, purchase or sale. Rental. Hire. Leasing.
.4	Trade capacity		Subscription contracts
.6	Stock of merchandise		—347.453
.133	Demand	.188	Organized distribution of goods
.2	Consumption capacity	.2	Distribution of consumer goods
.3	Purchasing power. Spending power	.4	Distribution of capital goods. Installations.
.137.2	Competition. Competition in price, quality, terms etc.	.19	Materials. Technical maintenance and supply
.27	Unfair competition. Cut-throat competition	.3	Commercial malpractice. Illegal forms of trade. Black markets
.28	Destruction of products for competitive reasons		Inland trade. Internal trade
.42	Dumping	.33	—347.7; 657; 658
.44	Anti-dumping measures	.338	Wholesale trade. Distributive trade
.47	Low-price importation		Wholesale buying. Obligatory purchase of goods. Contractual buying up. Free wholesale buying
.138	Marketing	.34	Semi-wholesale trade
.142	Turnover of goods	.35	Direct trade. Sale direct from the factory.
.144	Stock holdings		Trade between producer and retail trader without intermediary, without middleman
.146.2	Procurement markets	.37	Retail trade. Small trading and retailing
.4	Marketing areas. Sales territories	.371	Kinds of retail sale. Direct sale. Self-service.
.15	Return on trading. Trading profit. Gross margin. Commission on trade	.372	Mail-order selling
.16	Kinds of trade according to various criteria		Distribution systems in retail trade. Large stores. Supermarkets. Specialist businesses.
Special auxiliary subdivisions			Retail shops
339.16 012.23	Trade in a market economy		339.372:334.5 Retail outlets run by consumer cooperatives
.24	Trade in a planned economy. Socialist trade	.84	Businesses with a number of retail branches.
.32	Private trade	.843	Chain stores. Multiples. Branches
.332	State trade	.375	Central purchasing departments. Central sales departments
.34	Cooperative trade		Trade in antiques. Trade in second-hand goods, reconditioned items. Trade in discontinued lines, remainders. Trade in damaged goods, shopsoiled items, seconds, imperfects, rejects
Principal divisions			Irregular, occasional trade. Casual trading.
339.162	Trade according to degree of sophistication. Barter, exchange. Bargaining, haggling. Monetary trade, selling, retailing. Trade by credit and clearance	.376	Ad-hoc trading
	—339.18	.378	Retailing pattern
.163	Trade in relation to demand	.2	Shopping centres
.4	Speculative trading. Speculative intermediation, middleman-trading	.4	Shopping streets
.164.4	Option business	.379	Various questions of trade
.166	Trade according to class of goods	.8	Consumer organizations
	339.166:330.123.5 Trade in durables	.5	Overseas trade. External trade.
	:669.21/.23 Trade in precious metals		International trade. Foreign trade policy.
.167.1	Active trade		Customs
.2	Passive trade		—336.41
.3	Compensation trade. Barter trade		Special auxiliary subdivisions
.168.2	General trade	339.5.012	Systems and arrangements of external trade
.4	Special trade		339.5.012 ≈ 339.9.012, e.g.
.6	Transit trade. Transit generally		339.5.012.23 External trade systems in a market economy
.8	Customs-free trade in dutiable goods, e.g. in duty-free shops		.24 External trade systems in a planned economy
.17	Trading institutions. Institutional forms of trading		.42 Free trade
.172	Commodity exchanges. Product exchanges. Stock exchanges		.435 Protectionism
	—336.76; 347.731.1		.438 Imperialistic protectionism.
.173	Warehouses. Warehouse warrants		Colonial trade system
.174	Commercial fairs. Trade fairs		'Most favoured nation' policy
	—061.4; 347.731.2		
.175	Market areas. Marts. Market halls. Markets-cum-stations	.025.7	
	—725.26/.27; 347.731.2		

339.053	Trade balance	339.722	Dealings in gold. Foreign exchange dealings.
.057.7	Exchange relations in external trade. Terms of trade		Currency dealings. International money market
Principal divisions		.723	Payments from visible trade, from trade in goods
339.52	External trade organizations. Trade representation abroad, in foreign countries.	.724	Payments from invisible trade, from services
	Trade missions	.725	Return on capital
	339.52:334.788.2 Chambers of foreign commerce	.726	Donations. Gratuitous transfer of wealth
.524	Monopolies in foreign trade	.727	Dealings in capital. Provision of credit.
.54	Foreign trade policy. Instruments, agreements, treaties on foreign trade, e.g. 339.54:061.1(100) International	.22	Clearance. Settlement. International capital market
	agreements on trade policy, e.g. GATT (General Agreement on Tariffs and Trade)	.24	—336.778
.542	Foreign trade treaties as instruments of trade policy. Agreements on trading, payment, economics, merchandise. Treaties on shipping and trading posts. Treaty ports. Air traffic agreements. Preferential treatment of particular flags	.73	Import of capital. Capital inflow. Foreign investments
	—341.241.8	.732	Export of capital. Capital outflow. Investments abroad
.543	Customs policy. Customs systems. Duties. Tariffs	.74	Organizations for international payments and clearance
	—336.41	.736	International banks. Investment banks.
.2	Customs treaties. Customs agreements	.737	International clearance institutions e.g. BIZ (Bank für Internationalen Zahlungsausgleich, Basel). International loan institutions, e.g. IMF (International Monetary Fund)
.3	Kinds of duty. Import duty. Export duty. Transit duty, tolls	.738	International drawing rights. SDR (special drawing right)
.31	Revenue duties	.74	Ad-hoc alliances
.32	Protective duties. Tariff barriers. Prohibitive duties	.742	Currency zones
.33	Retaliatory duties. Retributive duties		Currency unions
.4	Tariffs	.743	Foreign exchange policy. Instruments of foreign exchange policy
.6	Removal of tariff barriers between particular countries. Customs unions. Free-trade area and their precursors		Treaties and agreements as instruments of foreign exchange policy. Currency agreements. Payment treaties. Treaties and agreements on balance of payments, settlement, clearance
.622	Customs unions		Exchange rate. Fixed exchange rate. Fluctuating exchange rate. Floating
.624	Free-trade areas		—336.748
.64	Customs preferences, concessions. Customs preference agreements, e.g. 339.543.64(41-44) In British Commonwealth: Commonwealth preference	Special auxiliary subdivisions	
.66	Preferential tariffs. Preferential duties	339.743.053	Equilibrium of exchange rate
.544	Specific instruments of foreign trade policy	.2	Overvaluation
Special auxiliary subdivisions		.3	Undervaluation
339.544.025	Influencing of foreign trade by administrative measures	.744	Convertibility
	339.544.025 ≈ 339.13.025	.745	Policy towards foreign exchange market
Principal divisions		.746	Exchange control. Foreign currency permits. Surrendering of currency holdings
339.545	Discrimination. Embargo. Trade restrictions for military or political reasons	.747	International currency crises
.548	Trade war. Customs war	.748	Currency war
.56	Foreign trade dealings, traffic. Trade relations between various countries, e.g. 339.56(73:[47 + 57]) Trade relations between USA and USSR	.9	Foreign sector of economy generally. Policy of foreign economic relations. International economic relations. Global economy
Special auxiliary subdivision		Special auxiliary subdivisions	
339.56.055	Turnover in foreign trade		<i>The following auxiliaries are also applicable under 339.5 and 339.7</i>
Principal divisions		339.9.012	Systems, arrangements, of foreign economic relations
339.562	Import	.23	Foreign economic relations in a market economy
564	Export	.24	Foreign economic relations in a planned economy
565	Transit. Re-exporting of imported goods. Conversion of semi-finished imports into finished goods for export. Storage and warehousing as trade	.42	Free trade
	International finances	.421	Liberalization of trade
.7		.435	Protectionism
Special auxiliary subdivisions		.436	Autarky. Economic self-sufficiency
339.7.012	339.7.012 ≈ 339.9.012	.438.2	Colonialist system
Principal division		.4	Neocolonialist system
339.72	International payments, clearance, settlement	Principal divisions	
Special auxiliary subdivisions		339.91	International division of labour
339.72.053	Balance of payments	.92	International economic cooperation.
.1	Foreign debt. Balance-of-payments deficit	.922	International economic integration, e.g. Integration as form of international and supranational economic cooperation
Principal divisions		.923	Economic unions. Economic communities. Economic blocs
339.721	International liquidity		339.923:061.1EC The European Communities (economic aspects)
		.94	Cooperation. Collaboration. Co-production. Supply. Specialization. Internationalization of production

339.96	Development aid as form of international economic cooperation —341.232	340.133	Explicit and tacit abrogation of laws. Repeal. Modification. Occasional rescission, waiving. Moratoriums
.97	International, supranational, multinational economic policy, planning, plans. International economic management	.134	Legislation. Policy and technique of legislation, codification, preparation, drafting, editing of laws
.98	Economic conflict. Economic nationalism. Economic war	.135	Emergency legislation. Suspension of valid laws
34	LAW. JURISPRUDENCE <i>The method of classification of section 34 is independent of the legislative systems of particular countries with different philosophies of law; it provides instead an arrangement and hierarchy based on generalized legal principles. Only in this way can a classification be offered that is equally applicable to any country. Legal systems valid in only part of a state may be denoted by place auxiliaries (3/9) - Table I(e) - and the form auxiliaries for legal sources (094) - Table I(c), e.g. 347.736(494)(094.7) Bankruptcy in Swiss cantonal law</i>	.136	Compilation, editing of collections of laws
		.137	Harmonization of laws. Unification of laws
		.14	Unwritten law. Non-statute law. <i>ius non scriptum</i> . Other sources of law
		.141	Common law. Custom. Usage —347.997; 39
		.142	Judgement, judicial decision, as source of law. Judicial precedent
		.143	Jurisprudence as source of law. Role of jurisprudence, lawyers, jurists, in establishing legal norm
		.15	Historic types of law and legal systems. Primitive laws
		.5	Comparative law
		.6	Auxiliary legal sciences. Forensic psychology. Forensic chemistry. Forensic medicine
		.61	Morals. Marriage. Sexual instinct. Procreation —343.54
		.62	Offences against the health, life, integrity of the person. Homicide, suicide, injury —343.6
		.63	Forensic psychiatry. Mental diseases, madness, insanity
		.64	Questions relating to living persons. Age, sex, identity. Distinctive features, peculiarities —Table I(k)-05
		.65	Pretence of illness. Deliberately induced diseases. Sickness used as excuse. Concealed, dissimulated illness. Illnesses attributed to others. Shamming. Simulation
		.66	Forensic medical evidence, testimony, of specialists
		.67	Forensic chemistry. Forensic toxicology
		.68	Scientific and technical questions of legal character
		.69	Subject specialists, expert witnesses: relations with justice, authorities
		341	INTERNATIONAL LAW
			Special auxiliary subdivisions
		341.01	Theory of international law, law of nations
		.018	Codification, implementation of international law. Promulgation. Coercion. Sanctions
			Principal divisions
		341.1/.8	Public international law. Law of nations
		.1	Law of international organizations
		.11	World parliament. World government with supranational authority
		.12	International governmental organizations without supranational authority
		.121	League of Nations
		.123	United Nations Organization (UNO. UN)
			Special auxiliary subdivisions
		341.123.02	Members of UN
		.04	Organs, committees of UN
		.043	Committees with executive and consultative power, e.g. UN Security Council
		.045.9	Committees of General Assembly with executive and consultative power e.g. UN Economic and Social Council
			Principal divisions
		341.16	Specialized agencies of world government
		.17	Regional associations or unions of states
		.176	Associations with specialized functions 341.176(4) Council of Europe
		.18	Legal bases of international conferences, congresses
		.181	Conferences of heads of state or heads of government. Summit conferences
		.182	Conferences of foreign ministers or their deputies. Conferences of ambassadors
339.96	Development aid as form of international economic cooperation —341.232	340.133	Explicit and tacit abrogation of laws. Repeal. Modification. Occasional rescission, waiving. Moratoriums
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		.17	Regional associations or unions of states
		.176	Associations with specialized functions 341.176(4) Council of Europe
		.18	Legal bases of international conferences, congresses
		.181	Conferences of heads of state or heads of government. Summit conferences
		.182	Conferences of foreign ministers or their deputies. Conferences of ambassadors
340	LAW IN GENERAL. PROPAEDEUTIC. LEGAL METHODS AND AUXILIARY SCIENCES		
.1	Types and forms of law		
.11	Nature, methodology, elements of law		
.111.5	Legal relationships		
.113	Legal terminology and linguistic usage		
.115	Methodology of law. Juridical methods		
.116	Subdivision and classification of law. Disciplines, faculties, branches of law. Legal specialties		
.12	Trends in theory of law. Schools, doctrines of law. Philosophy of law. Theory of state and law —340.15		
.13	Positive law. Sources of positive law. Legal norm. Enacted law. Statute law. <i>ius scriptum</i> . Operation of legal norm. Rules of its application		
.130	Sources of positive law		
.131	Authority, validity of law. Coercive force of law		
.132	Operation, interpretation, application of legal norm		

341.184	Conferences of departmental ministers	341.231.1	Declaration of the rights and duties of states.
	341.184 ≈ 354, e.g.		Offences against the rights and duties of states
	341.184.81 Conferences of ministers of economic affairs	.12	Legal bases of peaceful coexistence
	341.184.81:061.1EC Conferences of economics ministers of the European Communities	.14	Human rights
		.5	—342.7; 343.4
.185	Legal bases of interparliamentary conferences	.232	Rights and restrictions in freedom of association and free cooperation with other states. Right of withdrawal
.2	Persons and things in international law		International aid, assistance, support. Cooperation. Mutual aid. Development aid
.21	Subjects of international law	.1	Defence aid, help against attack
.211	Sovereign states. State sovereignty		—355.357
	—342.3	.2	Financial aid and cooperation
.3	Equal rights. Equality of states	.3	Economic aid and cooperation
.7	Surrender of sovereignty	.4	Administrative aid
.212	Semi-sovereign states. Protectorates. Mandated territories	.5	Technical aid
		.7	Intellectual, cultural, social cooperation
.213	Unitary states. Federal states. Confederations	.233	Right of intervention
	—342.24	.2	Right of supervision and advisorship towards underdeveloped countries. International trusteeship. Trust territories
.214	Neutral states. Neutralised states, rendered neutral by treaty. Permanent neutrality		Rejection of foreign intervention. National competence. Self-sufficiency
	—341.35	.5	Rights of minorities
.215	Other subjects of international law		Responsibility of states for the actions of their officials and nationals
.1	Churches. The Holy See	.234	International legal acts. International agreements. International treaties
.2	International unions. Non-governmental international organizations	.236	Treaties
.4	Natural persons, individuals, in international law. World citizenship	.24	—341.85
.43	Settlers. Immigrants. Emigrants. Abode. Residence	.241	Treaties of alliance. Alliances
	Inter-governmental organizations	.2	Mutual aid treaties
.217	341.217(7/8) Pan American Union	.3	Non-aggression treaties, pacts
	—061.1	.4	Treaties of guarantee (of territorial status quo)
.218	Formation, recognition, transformation, end of states	.5	Commercial, trading, economic treaties
	—321.013	.8	—339.542
.22	Things and property in international law		Origin, conclusion and ratification of treaties
.221	Territories of a state	.242	Treaty-making power
.1	River territory. Rivers as territory	.1	Conclusion of treaties
.2	Inland waters, lakes as territory. Sea, maritime territory. Territorial waters. Coastal waters. Gulfs, bays, bights. Shoreline	.22	Ratification of treaties
	—341.225; 551.468; 556	.24	Registration of treaties
.3	Colonial territory. Dependent, protected, mandated territory. Hinterland, outlying regions	.25	Publication, proclamation of treaties
		.27	Reservations. Restrictions. Saving clauses. Escape clauses
.4	Internationalization. Extraterritorialization. Neutralization	.5	Guarantee of treaties
.222	National frontiers, boundaries. Natural frontiers. Artificial frontiers. Historic frontiers. Strategic frontiers	.243	Effects of treaties. Execution of treaty obligations
.223	Acquisition, disposal, loss of territory	.244	Alteration of treaties. Modification, renegotiation. Annulment, dissolution of treaties. Expiry of treaties
.1	Seizure, occupation. Discovery	.245	Law of war. International legal relations in war
.14	Temporary occupation	.3	Aggression. State of war, belligerence.
.2	Annexation		Declaration of war
.3	Voluntary disposal of territory. Sale. Cession. Exchange. Donation. Leasing. Concession	.31	Aggression. Definition of aggression
.4	Plebiscite. Territorial referendum	.311	Causes of war
.224	Waterways. Canals. Rivers. Lakes. International waterways	.312	Legal justification, legitimacy of war. Just war (bellum iustum)
.225	The high seas. Open seas. International law of the sea	5	Ultimatum
	—341.221.2; 347.79	.314	Declaration of war
.226	Air. Air space. Ether, airwaves. International law of the air	.315	War zone. Theatre of war
	—347.8	.317	Conduct and direction of the war
.227	Earth's interior. Tunnels. Subterranean tunnels. Submarine tunnels	.32	—355
.228	Polar regions	.321	Persons and property involved in war
.229	Space. Cosmic space. Outer space	.322	Licit and illicit conduct of war. Means of hostilities. Reprisals. War crimes
	—347.85	.323	Siege. Bombardment. Blockade
.23	Rights and duties of states. Legal bases of international coexistence, cooperation	.324	Occupation of territories. Administration and exploitation of resources of occupied territories
.231	Autonomy. Independence. Right of self-determination. Right to regulate own constitution. Right of legislation. Right of self-administration. Right of diplomatic representation. Petition for autonomy	.5	Requisition of property
	—341.43	.6	Requisition of labour. Directed labour
		.325	Envoys. Negotiators. <i>Parlementaires</i> (bearers of truce flag)
		.326	Treason. Espionage. Subterfuges of war
		.328	Effect of war on international treaties

341.33	Wounded. Sick. Geneva Convention. International Red Cross. Military hospitals, casualty stations. Hospital vehicles, ships, etc. —362.191.1	341.462.2 .48	Private persons. Writers. Journalists. Learned persons, scientists etc. Offences, acts punishable under international law. Conditions for existence of offence
.34	Prisoners of war. Hostages. Internment —355.257.7	.485	Genocide. Murder of national, ethnic, racial groups
.35	Neutral states during war. Duties and rights of neutral states —341.214; 341.233	.49	Prosecution of offences. Punishment. Penalties. National and international jurisdiction
.354	Military vehicles on neutral territory, in neutral air space etc. —341.221; 341.224/.226	.6	International arbitration. International adjudication, jurisdiction
.355	Trade, commerce of neutral states. Contraband of war	.62	Peaceful settlement of disputes
.2	Acts by belligerents against neutral trade. Right of search. Embargo etc.	.623	Good offices. Advice. Counsel. Mediation
.4	Intervention by neutral states. Convoys etc.	.624	Commissions of inquiry. International observers
.356	War loans —336.3	.63	International arbitration
.357	Nationals of neutral states in the territories of belligerent states. Property of neutrals	.632	Treaties, on any subject, with arbitration clauses
.358	Violation of neutrality	.633	Obligatory, invariable arbitration. Occasional, facultative arbitration
.36	Laws of various kinds of warfare —355	.634	Reservation clauses in arbitration. Provisos
.361	Laws of land warfare 341.61 = 341.32	.636	Courts of arbitration
.362	Laws of sea warfare, marine warfare	.637	Arbitration procedures
.1	Privateering. Prize. Booty. Piracy	.638	Execution of sentences. Sanctions
.2	Undersea warfare. Submarine warfare.	.64	Administration of international justice
.3	Underwater mines	.645	International courts
.363	Naval bombardment. Naval blockade	.646	International Court of Justice (formerly Permanent Court of International Justice), The Hague
.364	Laws of aerial warfare —347.82	.65	Peaceful means of compulsion
.373	Laws of colonial warfare	.651	Retortion in general. Retaliatory measures
.375	Ceasefire. Truce. Armistice	.652	Reprisal
.38	Capitulation. Surrender	.653	Embargo
.382	End and consequences of war Post-war period. Return to state of peace —341.223	.654	Peaceful blockade
.383	Peace treaty	.655	Economic sanctions. Boycott
.384	Right of postliminy. Restoration of former legal status of persons and property in liberated territories	.66	Measures for executing sentence.
.385	Occupation costs. Exaction of costs.	.67	Compensation. Reparation
.388	Reparations. Restitution. Indemnity War debt	.678	Disarmament. Permanent, durable peace.
.39	Sequestration of enemy property	.7	Limitation of 'A', 'B', 'C' weapons: atomic (nuclear); biological (bacterial); chemical.
.4	Special jurisdictions, e.g. for sequestration, liquidation. Various tribunals, courts of arbitration	.71	Non-proliferation. Limitation of strategic arms —355.019
.41/.46	Civil war	.72	International control of manufacture and sale of arms, munitions
.411	International criminal law	.73	Diplomatic law. Laws of diplomacy
.412	Criminal offences against general, shared law	.75	Heads of state and representatives of state in foreign affairs. Diplomats generally.
.413	Criminal offences committed abroad	.76	Ambassadors. Chargés d'affaires etc.
.42	Territoriality principle. Scene of the offence (locus delicti). Territorial and extraterritorial operation of criminal law	.77	Duties of diplomats. Prerogatives, competence, powers of diplomats
.43	Personality principle. Laws of offender's place of origin	.78	Rights and immunities of diplomats and their staff. Extraterritoriality. Diplomatic immunity
.44	Universality principle. Jurisdiction of courts over acts irrespective of territoriality and personality principles	.781	Diplomatic ceremonial, protocol, etiquette.
.456	Effect and execution of foreign judgements, verdicts, sentences in criminal law	.782	Rank. Precedence
.46	Expulsion. Repatriation. Deportation. Political refugees. Right of asylum —343.286	.783	Diplomatic business. Negotiations. Diplomatic instruments, documents. Protocols.
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.035	Exhibition. Showing	.3	Air transport from home state to another state
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.3	Administrative system of ownership in shipping. Registration. Shipping registers. Ship's nationality, flag. Ship's papers. Clearance certificates	.37	Flying permission
.6	Sequestration of ships. Seizure. Enforced sale	.4	Questions of civil law concerning aircraft
792	Ship's owners. Joint ownership. Charterers. Right of abandonment		347.823.36:347.451 Sale and purchase of aircraft
.793	Ship's personnel. Crew. Signing on		:656.076.3 Chartering of aircraft
.1	Captain. Skipper	.824	Special legal questions concerning aircraft. Impounding, precautionary attachment, of aircraft
.5	Officers. Seamen. Service staff. Contracts. Signing on	.2	Flight personnel. Pilot. Legal status
6	Medical personnel	.4	347.823.4:331.116 Contracts of employment of flight personnel
8	Shore-based personnel. Port, harbour staff		Legal questions of civil air traffic business
794	Chartering. Freightage. Hire of ships		347.824:656.73.022.4 Opening of new commercial airlines
.795	Transport, ocean-going and inland waterway. Bills of lading		Air traffic liability
3	Shipping of freight, merchandise, goods. Cargo shipping	.826	Air traffic insurance
4	Passenger shipping	.827	347.824:368.1 Property insurance in air traffic
5	Lading. Unlading. Lay days. Demurrage		:368.3 Insurance of persons in air traffic
.6	Towing. Tugging	.828	Criminal law of the air
796	Maritime damage, losses. Average	.2	—343
1	Particular average	.3	Military aviation law
.2	General average	.4	—355/359
.3	Damage from collisions, running foul	.6	Law of air raid precautions (ARP)
.797	Maritime credit. Bottomry	.83	—355.58 and references there
.798	Maritime mortgage, hypothecation, pledging	.836	Compulsory ARP service
.799.1	Navigation. Shipping lanes. Maritime traffic rules. Lights, signals	.837	Compulsory material contribution to ARP
.2	Shipwreck. Loss at sea. Rescue. Lifeboat service. Ownership of wreck and cargo remnants. Stranded goods, flotsam, jetsam		ARP procedures, rules of conduct
			Punitive sanctions in ARP
			Law of the ether. Broadcasting law
			Broadcasting law. Transmission and reception of radiocommunications
			Nuisances arising from radiocommunications

347.85	Law of outer space —341.229	347.947	Visit to scene of offence. Personal inspection
9	Legal procedure. Judiciary personnel and organization —34.06/.08; 343.1	.948	Expert witnesses
.91/.95	Civil proceedings and procedure	.949	Burden of proof. Onus probandi
.91	Particular civil proceedings	.95	Judicial decision. Judgement. Appeal.
.918	Arbitration proceedings. Courts of civil arbitration —331.15; 341.6	.951	Revision. Execution
919	Special proceedings in particular legal matters		Kinds of judgement and judicial decision —343.151
.1	Matters of voluntary jurisdiction	Special auxiliary subdivisions	
.2	Dispensatory jurisdiction. Homologation. Ratification. Probate	347.951.01	Formation of judgements
.3	Simplified procedure for petty cases Small claims courts etc.	.02	Pronouncement of judgement
.6	Urgent, emergency, procedure. Putting under seal. Inventory	.03	Entering in the record
.7	Summary procedure	.04	Interpretation. Amplification
.8	Disciplinary procedure	Principal divisions	
.92	Various aspects of court procedure	347.951.1	Judgement by default
.921	Parties to proceedings. Capacity and answerability. Competence	.2	Kinds of judgement. Interim orders, injunctions. Provisional judgements. Interlocutory decrees. Preparatory judgement. Final judgement
.1	Capacity to sue. Qualification Enablement	.3	Various denominations of judicial decision. Sentence, judgement, ruling, decree etc.
.2	Jointly interested parties. Joint actions. Appellants, claimants, plaintiffs. Appellees, defendants, respondents	.952	Execution of judgements. Distraint. Constraint etc. —341.9
.3	Participation of third parties in proceedings	.1	Execution on movables, personalty. Seizure, distraint, attachment
.4	Authorized agents at law. Attorneys	.2	Execution on immovables, realty. Taking possession
.5	Intervention of public prosecutor's office. Advice, guidance from public prosecutors	.3	Voluntary execution
.6	Legal costs. Scale of costs. Schedule of fees	.4	Various kinds of seizure. Seizure under prior claim. Distraint of crops. Seizure of personal effects. Distress. Foreclosure. Conservatory seizure, impounding
.8	Legal aid. Assistance with costs. Proceedings free of charge	.5	Seizure of movables, and moneys owing, from third persons. Third-party attachment. Garnishment. Arrestment
.922	Civil actions in general	.6	Provisional execution
.1	Prescription, lapsing, of actions	.7	Sequestration
.3	Conditions of existence of actions	.8	Distribution of proceeds. Order, priority, of creditors
6	Kinds of action. Actions real, personal, mixed. Conservatory action. Actions petitory, possessory (action for possession), declaratory. Vexatious action	.9	Imprisonment for debt
.7	Cumulative and concurrent actions	.953	Res iudicata (chose jugée). Binding force of judgement. Definitive ruling
.923	Concurrence of actions civil and criminal	.954	Suspension of execution
.924	Actions encompassing third parties	.955	Means of remedy in general
.925	Summonsing of defendant. Serving of writ. Subpoena. Citation. Court appearance	.956	Appeal. Appeals procedure. Second instance
.926	Litis-contestation. Answer to charge. Plea	.6	Kinds of appeal. Appeal on facts of case.
.927	Conciliation. Settlement	.7	Appeal on point of law. Evocation
.928	Right of defence in general	.957	Effect of appeal
.929	Exceptions. Pleas in bar. Demurrers. Estoppel	.958	Cassation. Quashing. Application to court of appeal. Examination of appeal. Procedure
.930	Reconvention. Cross-suit. Counterclaims	.959	Other legal remedies against judicial decisions. Application for review, revisal
.931	Judiciary formalities. Judicial examination. Hearings	.96	Nullity proceedings
.932	Case papers, documents. Form, drawing up, formalities of wording	.961	Judiciary personnel. Law-court officials. Jurists, civil lawyers
.933	Terms and deadlines. Extensions. Deferments. Adjournments. Legal holidays. Bringing forward of hearings	.1	Notaries (notaries public). Notariat
.934	Nullity. Voidance. Nonsuit. Forfeiture. Defaults and errors	.2	Official duties, functions, competence, sphere of authority of notaries
.935	Judicial examination of the matter. Entering on cause-list. Memoranda, notes	.3	Admission to notariat. Nomination, candidacy, probation. Resignation
.936	Various incidents of proceedings.	.4	Moral duties, obligations of notaries.
.937	Interruption, extinction, resumption of action. Desistance. Withdrawal of suit. Recusation	.5	Discipline. Confidentiality
.938	Rogatory commissions	.6	Official documents. Deeds. Certified copies. Engrossments
.939	The hearing	.7	Choice of notary by parties concerned
.7	Organization and policing of hearing. Closed sessions. Hearings in camera	.8	Responsibility, answerability of notaries
.94	Evidence. Proof. Procedure for hearing of evidence	.962	Notaries' fees. Scales of charges, tariffs
.942	Documentary evidence. Evidence in writing. Signature. Marks	.1	Professional, corporative organization. Associations of notaries
.943	Evidence of witnesses. Testimony. Affidavit. Sworn statement	.2	<i>For Law Society (UK), prefer 347.964.18</i>
.944	Admission or confession of party	.3	Magistracy. Judiciary. Magistrates. Judges —343.16
.945	Judiciary oath	.6	Functions, status, rights of judges and magistrates
.946	Legal presumptions. Common knowledge	.7	Nomination. Election. Resignation
			Moral duties, obligations of judges and magistrates. Discipline. Qualities required
			Responsibility, answerability of judges and magistrates. Suing for partiality
			Salary, stipend. Gratuities, douceurs

347.963	Public prosecutors. Director of Public Prosecutions (England and Wales). Procurators Fiscal (Scotland). Attorney General. District Attorneys (USA) —343.163 347.963 $\approx$ 347.962	348.05 .06 .07	Ecclesiastical discipline and penal law Ecclesiastical private law External ecclesiastical law. Church and constitution. Relations between public, administrative law and ecclesiastical law 348.07 $\approx$ 348.7
.964	Auxiliary law-court officials and lawyers	Principal divisions	
.1	Solicitors. Attorneys. Commissioners for Oaths 347.964.1 $\approx$ 347.961	348.1/.7 .1/.6 .1	Laws of Roman Catholic Church Roman Catholic canon law Sources of canon law, e.g. the Bible, acts of the Holy See
.2	Clerks of the Court. Court record office. Registrars 347.964.2 $\approx$ 347.962	.3	Ecclesiastical persons. Government of the Roman Catholic Church —262
.3	Bailiffs. Process servers. Sheriffs' officers 347.964.3 $\approx$ 347.961	.31	Ecclesiastical authority and jurisdiction. Relations with secular authorities
.4	Official appraisers, valuers. Surveyors to the court	.32	Church hierarchy. Ecclesiastical functions and functionaries, dignities and dignitaries
.965	Barristers. Advocates. Counsel. The bar	.328	Religious associations and societies. Ecclesiastical bodies corporate —348.72
.1	Purpose, functions, rights of barristers	.2	Lay organizations. Associations of the faithful. Law of laity
.2	Admission of barristers. Calling to the bar	.3	Religious orders, houses. Monasteries. Nunneries. Convents. Religious communities
.3	Moral duties, obligations of barristers. Discipline. Confidentiality	.4	Religious charitable associations. Hospitallers. Nursing orders
.4	Professional transactions and services. Consultation. Representation. Pleading of case	.5	Religious institutions for education
.45	Pleading of case. Judiciary eloquence	.6	Religious institutions for propagation of faith. Missions. Missionary orders
.6	Responsibility, answerability of barristers	.33	Hierarchia ordinis. Hierarchy of ordination
.7	Barristers' fees. Scales of charges, tariffs	.34	Ecclesiastical persons. Clergy. Clerical status
.8	Professional, corporative organization. Associations of barristers. Bar Council (England and Wales)	.4	Things ecclesiastical
.97/.99	Organization and administration of the courts —343.17	.41	Things spiritual
.97	Languages in court. National, official language —340.113	.411	Divine worship. Religious ceremony
.98	Competence. Jurisdiction. Prerogatives —341.981/.987	.412	Sacraments
.99	Kinds of court and tribunal and their jurisdictions —343.19; 344.3; 348.58	.413	Sacred times and seasons. Holy days
.991	Supreme court. Supreme judicial tribunal in empire, federation etc. Chambers of cassation, of appeal (in UK: House of Lords considered as final court of appeal)	.414	Sacred places. Churches. Temples. Oratories. Altars
.992	Courts of justice and appeal (in England: Supreme Court of Judicature, consisting of High Court of Justice and Court of Appeal)	.415	Ecclesiastical burial, cremation. Funeral rites
.993	Courts of the first instance. County courts. Circuit courts. District courts (USA)	.416	Magisterium. Teaching function of the church
.994	Special jurisdictions	.42	Things temporal. Goods, property, material aspects of the church —348.73
.1	Urgent cases. Trial in chambers. Orders of judge in chambers	.5	Penal canon law. Ecclesiastical discipline
.2	Rulings on petitions. Interim injunctions	.51	Canon-law offences, crimes, in general. Ecclesiastical misdemeanours
.995	Local courts, of districts, cantons etc. Jurisdiction of District Commissioners (in some former British colonies), District Magistrates For district courts in USA — 347.993	.52	Canon-law penalties, punishments
.997	Tribunals of custom, of established and customary rights (especially in colonies) —340.141	.55	Particular canon-law offences. Crimes against the faith, the church, life, property, morals
.998	Various tribunals and jurisdictions	.58	Ecclesiastical judiciary organization. Canon-law proceedings. Ecclesiastical courts, tribunals —262.9
.4	Industrial tribunals and courts	.6	Private canon law. Canonical aspects of civil law —347; 348.42
.6	Maritime tribunals and courts	.7	External law of the Roman Catholic Church. National ecclesiastical laws. Public laws of churches
.72	Conciliation boards (in industrial disputes)	71	Political and constitutional relations of church and state —322
.74	Arbitration commissions (for industrial accidents etc.) —331.155	.711	Various forms of organized relation of church to state. State religion, established church. Separation of church and state, disestablishment. Concordats —342.731
.85	Administrative tribunals	.715	Rights and privileges of the state, regarding the church
.999	Commercial courts. Consular tribunals	.717	Participation of the church in, e.g., education, welfare, supervision of missions
348	ECCLESIASTICAL LAW. CANON LAW. RELIGIOUS LAW	.72	Ecclesiastical bodies corporate (public-law aspects) —348.328
Special auxiliary subdivisions		.73	Church property, lands, patrimony. Benefices
348.01/.06	Internal ecclesiastical law 348.01/.06 $\approx$ 348.1/.6	.8/.9	Laws of various other churches and religions 348.8/9 $\approx$ 28/29
.01	Sources of ecclesiastical law		
.03	Church organization. Ecclesiastical personnel		
.04	Church activities		

348.819	Laws of eastern Orthodox churches	35.073.5	Wealth. Property. Economic management
3	Laws of Russian Orthodox Church		Income from rents, interest
.4	Laws of Greek Orthodox Church	.51	Property not designated for public service
.5	Laws of Romanian Orthodox Church	.511	Acquisition. Disposal. Loss
.61	Laws of Serbian Orthodox Church	.512	Realty. Real rights
.62	Laws of Bulgarian Orthodox Church		35.073.512 $\approx$ 347.2
.83	Laws of Anglican churches, of Church of England	.513.1	Leasing. Hire. Rental (as lessee)
		2	Leasing out. Letting. Hiring out (as lessor)
.84	Laws of other Protestant churches	.515	Management, administration of property
.841	Laws of Lutheran Church	.52	Finances. Budgets. Accounts etc.
.842	Laws of Calvinist Church	.526	Submission and publication of accounts
.85	Laws of Presbyterian Churches (Church of Scotland. United Reformed Church, England and Wales)	.527	Audit
		53	Debts
.87	Laws of Methodist Church		Needs, requirements. Resources Supplies
.94	Buddhist law	.531	Procurement, purchasing
.96	Jewish law	.532	Equipment. Furniture
.97	Islamic law	.533	Materials
.995 2	Shintoist law	.534	Publicity
		.537	Consultations. Advice
		.54	Transport
349	SPECIAL BRANCHES OF LAW		Public buildings and land. Space requirements
	MISCELLANEOUS LEGAL MATTERS		Regulations. Orders. Complaints. Criticism.
.2	Labour law	55	Incidents. Accidents
	—331		Fees. Payment for services. Taxes. Levies.
22	Contractual relations. Contracts of employment	.6	Duties
.23	Working conditions. Pay. Hours. Responsibility	074	Formation, composition, dissolution of authorities
.24	Workplace, physical conditions. Restrictions imposed	.075	Administrative organs. Departments.
.3	Law of social welfare	.1	Office-holders, incumbents
.4	Land, property, planning laws		Organs of the highest level. Representative bodies. Deliberative assemblies, councils, colleges
.41	Law of land, property	.2	Executive committees, bureaus, offices
	—332.2; 347.23/.26	.3	Office-holders, incumbents
42	Agrarian law	5	Departments, divisions, sections. Secretariat.
	—338.43; 347.453.1; 63	.7	Treasury, cashier's department
44	Planning law. Building regulations. Laws of dwellings and occupancy	6	Inspectorate
	—347.254; 347.453.3; 351.778		Joint, shared, cooperative organs (of several authorities). Consultative committees
.6	Environmental protection law	.8	Commissioners. Delegates of superordinate organizations
7	Law of atomic, nuclear power		Competence, sphere of authority. Duties, powers of authorities
35	PUBLIC ADMINISTRATION. GOVERNMENT. MILITARY AFFAIRS	076	Functions, official actions of authorities
Special auxiliary subdivisions	<i>The .071.08 special auxiliaries listed here are also applicable in the other divisions of class 3, as indicated at 3.07 and 3.08</i>	.077	Office management. Conduct of official business
35 07	Administrative arrangements. Public authorities. Area, regional authorities. Public corporations. Public services, utilities. Local administrative unions	.1	Administrative actions. Disputes
	Foundation. Development	.2	Administrative procedure. Formalities
.071	Origin. Setting up. Establishment	.3	Assemblies. Meetings. Conferences.
.1	Foundation. Inauguration	.5	Publications
.2	Growth. Development	.6	Decisions. Orders. Directives. Regulations.
.3	Rights. Privileges. Immunities. Constitution Charter. Statutes	.7	Decrees. Emergency regulations
.5	Territory. Extent. Boundaries. Subdivision.	.91	Records. Proceedings, transactions, minutes.
	Regional divisions. Personal groupings	.92	Reports
6	Centralization. Decentralization	.078	Destruction and preservation of documents
.072	Relations with other organizations	1	Use of languages. Official language(s)
1	Independence. Autonomy. Centralization. Decentralization	.2	Kinds of administrative activity
.2	Intervention of superordinate authorities. Administrative supervision, tutelage.	.3	Intervention by public authorities generally
.3	Collaboration. State control	.4	Making of rules and regulations
.4	Cooperation between authorities. Official assistance	.5	Supervision. Inspection. Control. Investigation
.5	Dissolution. Suppression by superordinate authorities	.6	Direct intervention
.6	Replacement of one authority by another	.7	Financial support. Subsidy. Material and moral support
.7	Inspection. Control. Supervision	.8	Indirect intervention. Loans. Concessions
.8	Intervention of the governed in administration, other than by elections	.08	Intervention in special cases, in emergencies, in crises
.073	Financial relations. Subsidies etc.		Withdrawal, abolition of administrative control. Derestiction. Decontrol
.1	Economic position. Legal position	.081	Personnel of authorities. Officials. Staff.
	Consequences in civil law, of public decisions, policies		Public office: theory, organization.
			Officialdom as a whole
			<i>Officials of different levels of government (local, regional, national) are classed in 352/354</i>
			—05 in Table I(k)
			Distinctive marks and characteristics of public office

35.081.6	Rights to honours. External marks of respect. Titles. Official robes, insignia, uniforms. Badges of office	351.711	Public properties. Crown lands. State property. Municipal property. Management of public properties (administrative questions only)
.7	Relations between staff and authority —331.152.3	.712	Public works. Contracts, contractors
.71	Legal position of staff		351.712:625.7 Public road works and contracts
.72	Discussions with staff. Joint consultations (with equal representation)	.1	Authorization and ordering of public works
.73	Staff participation in management, in decision-making	.2	Undertaking of works and supplies for authorities. Contracting
.74	Permanent staff representation. Consultative councils. Staff councils		Special auxiliary subdivisions
.082	Admission to public office	351.712.2.023	Persons authorized to undertake works or supplies
.1	Aptitude requirements. Examinations. Examining boards. Probationary period	.025	Projects, plans, blueprints. Preliminary studies. Estimates
.2	Personal characteristics. Age, sex, health etc.	.028	Articles and conditions of contract. Tenders. Award of contract
.3	Nomination. Candidacy. Selection. Election	.031	Modifications. Supplementary work. Acceptance. Official inspection and approval
.4	Advancement. Rank. Hierarchy. Promotion. Performance in office	.032	Obligations of authorities. Rights of contractor
.5	Incompatibility of duties. Plurality of offices	.033	Obligations of contractor. Rights of authorities
.6	Oath of office. Taking of oath, swearing in	.043	Cession, transference of contracts. Sub-contracting
.7	Sex of officials. Admission of women to public office	.045	Rescission, termination, cancellation of contracts
.8	End of service in public office. Retirement: voluntary, compulsory		Principal divisions
.083	Duties and obligations of officials. Regulations of office	351.712.3	Carrying out of work for the benefit of third parties
.1	Authority of administration over its staff. Discipline	.4	Works and supplies under state supervision, administered by authorities
.3	Place of service. Residence. Domicile	.5	Expropriation in the public interest. Compulsory purchase
.4	Sureties. Deposits. Caution money		—332.26; 347.234
.5	Duty to exercise one's office, to perform the work	.6	Removal of hindrances in public works
.7	Duty of obedience, loyalty	.7	Associations of landowners for joint execution of public works, e.g. dyke-building associations, polder boards
.8	Professional confidentiality. Official secrecy —343.452	.713	Fiscal regulations. Taxation. Rating
.91	Obligations regarding titles, decoration, affiliations. Permission or prohibition from accepting foreign honours	.72	—336.2
.92	Secondary employment, outside official duties	.74	Public finance. Financial legislation
.93	Marriage: permission or prohibition		—336.12
.94	Prohibition from accepting gifts, gratuities		Police. Public law enforcement
.95	Duties in wartime		—343.98
.96	Working regulations in offices and workplaces		351.74::061.1(100) Interpol (International Criminal Police Commission)
.084.1	Officials. Employees. Office staff. Technical staff. Labourers	.741	Organization of police. Police service
.085	Competence, powers of officials. Sphere of authority. Responsibilities. Official actions	.742	Gendarmerie. Constabulary. Armed state police force
.086	Responsibility, answerability of officials	.743	Civic guard, militia. National guard
.087	Rights of officials. Status. Position. Entitlement to privileges	.744	Countryside police. Rural guard force. Forest rangers
.1	Right to office. Immunity from dismissal	.745	Urban police. Regional and local police forces. Town, city police
.3	Right to promotion	.746	Other kinds of police
.4	Financial rights	.1	Political police. Secret police. Frontier police. Border guard
.41	Salary. Salary scales. Minimums. Grades. Payment by age, seniority, length of service	.2	Investigative police. Criminal Investigation Department (CID) (UK). Detectives
.42	Supplements to salary. Allowances	.3	Special, occasional, sworn-in police. Special constables (UK)
.43	Retirement pensions. Disablement pensions. Other assistance	.7	Public morals brigade. Vice squad
.44	Insurance	.749	—351.764
.5	Rights of dependants	.2	Special-purpose police
.8	Means of claiming entitlements for officials and their dependants	.3	—351.756; 351.764; 351.77; 351.81
088/ 089	Other personnel matters	.4	Water police. River police. Harbour police. Marine, sea police. Coastguard
	35.088.2/.9 ≈ 331.82/.89, e.g.	.6	—347.79
	35.088.2 Working conditions. Workplace. Offices (from 331.82)		Air police
	35.089 ≈ 331.9	.75	—347.822.3
Principal divisions			Special police for air raids, gas attacks. Air-raid wardens
351	PARTICULAR ACTIVITIES OF ADMINISTRATION		—355.58 and references there
	<i>Details by colon if not listed below, e.g.</i>		Railway police. British Transport Police (UK)
	351:69 Administration of building, construction		—351.812
.71	Public properties. Public works. Tax		Maintenance of public order. Keeping the peace

351.751	Maintenance of civil liberty. Freedom of thought. Freedom of speech. Freedom of the press	351 765	Supervision and control of animals. Protection of animals. Useful animals. Destruction of harmful animals, pests
.5	Censorship. Imprimatur, permission to publish	.766	Combating of immorality, of blasphemy
.752	Supervision of freedom of association and assembly	.77	Supervision of public health and hygiene. Sanitary control —614.1/.7; 628
.1	Freedom of association. Societies. Clubs	773	Public health inspection. Inspection of foodstuffs
.175	Gaming, gambling clubs	137.127	Milk: testing, examination
.2	Freedom of assembly. Meetings. Rallies	.513	Meat: official inspection in abattoirs etc.
.753	Supervision of weapons, arms, ammunition, explosives	.774 7	Vaccination
.3	Sale, transport, use, of guns, firearms. Shooting sports, marksmanship	.776	Supervision of cemeteries, of corpse disposal. Cremation —614.6
.6	Explosive substances and devices. Bombs	3	Transport of corpses. Exhumation
.7	Surrender, handing in, destruction, confiscation of arms and ammunition	.7	Examination of corpses. Post-mortems. Autopsies
.754	Supervision of streets, highways, public places	.777	Supervision of hygiene of air and soil —614.7
.1	Crowd control. Mobs (including unlawful assembly)	5	Storage and handling of noxious and dangerous products
.2	Causing obstructions. Parking of vehicles	.51	Supervision of construction of buildings, plant etc involving dangerous products or processes
.3	Riots	.6	Pollution of air, soil, water —628.39; 628.4; 628.515/.516
.5	Public parades, processions, ceremonies	.61	Wastes, effluents. Waste disposal
.6	Cleanliness of highways. Control of litter	.612	Sewerage
.7	Safety of highways. Buildings in dangerous condition, unsafe, ruinous	.613	Waste disposal
.91	Collections for charity etc. Flag days	.614	Street hygiene
.92	Music. Entertainments. Street singers. Buskers	.8	Urban hygiene. Health of towns, cities —628.4
.755	Supervision and registration of inhabitants, residents —347.18	.83	Provision of parks, open spaces
.1	Names. Titles	.778	Other public health questions
.2	Civil status. Registry offices. Registrars of birth, marriage, death	2	Nutrition. Food supply
3	Population registers. Records of domicile, residence	31	Drinking water. Beverages
.5	Authentication of signature. Certification	5	Dwellings. Housing —613.5
.61	Passports. Passport issue and supervision	511	Permission to build. Planning permission. Building permits
.62	Identity papers. Personal identity card	.52	Improvement of housing conditions
.65	Various certificates and testimonials. Service records. Good conduct certificates	.53	Renovation of buildings
.756	Supervision of aliens, non-nationals. Police control of aliens. Alien status. Entry permits	.531	Improvement of housing ratios. Housing construction
757	Visas	.532	Private housing. Building of dwellings without public support. Speculative, commercial housing
.758	Supervision of hotels, guest-houses, lodgings	.533	Public housing. Building of dwellings with public support. Social housing. Local authority housing. Council housing (UK)
.1	Supervision of buildings and places of public assembly	.534	Building of dwellings with private support. Charitable housing trusts etc.
.2	Entertainment buildings. Theatres. Cinemas. Concert halls. Circuses. Sports stadiums.	.54	Temporary, short-term dwellings. Emergency housing. Prefabricated houses ('prefabs') for short-term use —69.033
.3	Censorship of films, theatre and broadcasting	.541	Measures concerning rental and use of dwellings
.31	Fairs. Markets. Fêtes. Bazaars	.542	Rent control. Fair rent determination
.5	Night clubs. Cafés. Bars. Public houses	.545	Protection of tenants. Security of tenure
.759	Official opening and closing times	.546	Creation of rented accommodation
1	Churches. Synagogues. Temples. Religious places of assembly	.56	Measures against over-occupation, overcrowding
.4	Other forms of supervision and control	.591	Housing market. Accommodation market
.5	Official time. Civil time. British Summer Time (BST) etc. Time signal	.592	Regulations concerning use of vehicles and boats as dwellings. Mobile homes.
.6	Measures against annoyances. Noise abatement —534.83; 628.517.2; 699.844	.593	Houseboats
.76	Protection of property. Lost property offices	.779	Dwellings near cemeteries
.761	Exceptional measures for protecting order and safety. Civilian and military requisition of materials	.8	Dwellings near airports
.762	Supervision of public morality	.78	Animal health and hygiene. Veterinary supervision and control —614.9; 619
.3	Control of alcohol, tobacco, narcotics. Liquor licensing	.785	Official veterinary inspectors
.762	Measures against narcotics, hallucinogens	.79	Public safety. Accident prevention Details by :614.8
.763	Control of games of chance. Lotteries, gambling, betting —343.56; 351.752.175		Safety measures concerning buildings.
.764	Control of begging, of vagrancy, tramps		Building inspection and control
	Supervision of sexual morality. Control of prostitution		Administration of waterways. Laws concerning water

351.79 (cont'd)	<i>Details by :626/627</i>	351.816	Post. Mail. Postal administration. Postal laws and regulations —656.8
.791	Rivers. Canals		Telecommunications: public administration and control <i>Details by :654</i>
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.111	Measures concerning roads	.83	Science. Arts. Literature
.3	Maintenance and repair of roads		Festivals. Ceremonies. Public games. Social life. Folk customs
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.22	Water traffic regulations	.86	Supervision by the judiciary, the criminal courts
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32	Division of air space —341.226; 347.823.1 Cf. 341.229; 347.85		
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325	Restricted areas		
33	Principles of air traffic control		
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.343	Collision avoidance		
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.345	Depending on altitude range Minimum flight altitudes		
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351.95	Administrative jurisdictions, competence. Conflicts of powers. Administrative council of state —342.525	354 42	Ministry of posts. Ministry of Posts and Telecommunications (UK)
.96	Supervision of national administration by Parliament	45	Ministry of public building and works. Public works functions of Department of the Environment (UK)
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352	LOWEST LEVELS OF ADMINISTRATION. LOCAL GOVERNMENT. MUNICIPAL ADMINISTRATION. LOCAL AUTHORITIES	48	Ministry of civil aviation (in UK, part of Department of Trade and Industry — 354.81)
		.51	Ministry of justice
		.52	Ministry of religious affairs
		.53	Ministry of health. Department of Health and Social Security (UK)
		.54	Ministry of population
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.075	Local administrative organs, departments, office-holders	.71	Ministry for the navy. Admiralty (UK)
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.2	Executive committees. Corporation. Mayor and aldermen. City Fathers	.81	Ministry of economic affairs. Ministry of industry. Department of Trade and Industry (UK)
.26	Aldermen. Councillors. Jurats	.82	Ministry of commerce, trade. (UK: Board of Trade, now part of Department of Trade and Industry — 354.81)
.31	Leader of the council. Mayor. Burgomaster	.83	Ministry of agriculture. Ministry of Agriculture, Fisheries and Food (UK)
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352 9	Autonomous local administrative organs	.85	Ministry of national insurance, welfare, social benefits. Social security functions of Department of Health and Social Security (UK)
.91	Drainage syndicates. Polder boards (Netherlands). Water boards. Conservancy boards (UK)	.86	Ministry of food (in UK, now part of Ministry of Agriculture, Fisheries and Food — 354.83)
353	MIDDLE LEVELS OF ADMINISTRATION. REGIONAL, PROVINCIAL GOVERNMENT. REGIONAL AUTHORITIES	355/359	MILITARY AFFAIRS. ART OF WAR. MILITARY SCIENCE. DEFENCE. ARMED FORCES —623
.1	Primary divisions of a country. Regions (generally). States in a federation		Special auxiliary subdivisions [355/359]-5/-9
.2	Provincial governments. Provinces. Departments. Counties (USA, England and Wales, Scotland to 1975). Regions (Scotland, from 1975)		<i>Any subdivision of 355/359 may be combined with any other of its subdivisions, by converting one of them into a hyphen auxiliary; the hyphen replaces the digits 35, e.g. -611.4 (from 356.114). Examples:</i>
.5	Divisions of provinces. Sub-prefectures		355.141 Uniforms
.7	Arrondissements. Kreise		356.114 Mountain, alpine troops
8	Cantons of arrondissements		Hence:
	Special kinds of regional administration. Colonies governed as divisions of home country. Mandated territories. Occupied territory		355.141-611.4 Uniforms - mountain troops
.9	Independent administration of regions of a country. Ministries of regions. (UK: Scottish Office, Welsh Office)		<i>alternatively:</i>
	353.9 ≈ 354		356.114-514.1 Mountain troops - uniforms
354	HIGH LEVEL, TOP LEVEL OF ADMINISTRATION. CENTRAL, NATIONAL GOVERNMENT	Principal division	
.1	Ministries for general business. Cabinet Office (UK)	355	MILITARY AFFAIRS GENERALLY —355.48
.11/.86	Ministries of various affairs. Departments of state		Special auxiliary subdivisions
.11	Ministry of foreign affairs. Foreign Office (UK)	355 01	War. Sociology of war. Philosophy of war. Militarism
.12	Ministry for colonial affairs. Colonial Office	.011	Justification of war. Legitimacy, lawfulness. Perenniality of war
.13	Ministry for relations with associated states, former colonies (UK: Commonwealth Office; combined with Foreign Office from 1968)	.012	Criminality of war
.21	Ministry of finance. Exchequer (UK)	.013	Causes of war. Defence of interests. Expansionism. Economic competition. Imperialism
.22	Treasury	.014	Influence of social factors on preparation for, conduct of, war. Moral and material conditions. Arming. Rearmament
.23	Ministry for the budget	.015	Militarism as habit of mind
.31	Ministry of internal affairs. Home Office (UK)	.016	Antimilitarism
.32	Ministry of education. Ministry of science. Department of Education and Science (UK)	.018	—172.4; 343.343.5
.33	Ministry of police, public safety (in UK, function of Home office — 354.31)		Moral, physical, financial, economic consequences of war. Cost of war. Gains and losses, balance-sheet of victories. Military glory
.34	Ministry of fine arts. Ministry for the Arts (UK)		
.36	Ministry of propaganda, of public relations. Central Office of Information (UK)		
.4	Ministry of transport, communications. Transport divisions of Department of the Environment, and civil aviation divisions of Department of Trade and Industry (UK)		

355.019	Prevention of wars. Arms reduction, limitation. Disarmament —341.67	355.231.2	Schools for non-commissioned officers. Brigade schools
.02	Military policy. Defence policy	.3	Schools for commissioned officers. Staff colleges
.07	Administrative arrangements 355.07 $\approx$ 35.07, e.g. 355.077.6 Military regulations generally —(094), Table I(d)	.4	Naval training schools. Naval colleges
		.232	Advanced training schools. Specialist colleges. Higher military studies. Schools of war skills, weapons training
Principal divisions		.233	General military education and training. Instruction of the troops, the ranks
355.1	Armed forces generally. Armed services. Military life	.1	Teaching. Curriculum. Examinations
.11	Soldiers. Military personnel generally	.11	Military education and preparation of the young, of civilians. Premilitary preparation
.121	Military life (land forces) in peacetime	.2	Branches of education
.123	Military life (land forces) in wartime	.21	Technical education
.124	Military life at sea. Naval life	.22	Physical education. Exercise. Sport
.125	Military life in the colonies	.23	Moral and religious education. Care and welfare in leisure time
.126	Military life in airborne forces. Air force life		Education outside schools. Lectures, courses, in the garrison or unit. Scientific education for non-commissioned officers. Language courses
.13	Military honour. Discipline. Military spirit and ethic. Rewards and privileges	.234	Military school organization 355.235 $\approx$ 371
.131	Honour. Breaches of honour. Courts of honour. Courts of inquiry, tribunals	.236	Selection of officers 355.236 $\approx$ 355.33
.132	Duels in the armed forces —179.7	.237	Officer training. Further education, re-training of officers —355.55
.133	Discipline. Orders and obedience. Breaches of discipline	.24	Mobilization of non-military forces.
.134	Rewards. Citations. Insignia. Decorations. Privileges. Benefits	.241	Mobilization of the nation
.14	Uniforms. Insignia. Distinctive colours —355.66; 687	.242	Economic mobilization generally
.141	Uniforms	.243	War materials, supplies, stocks
.145	Insignia. Badges of rank etc.	.244	Appropriation, commandeering, of transport systems: railways etc. —355.223
.15	Flags. Standards. Regimental colours —929.9	.1	Measures regarding civilian population. Protection of civilians. Propaganda
.16	Military festivals. Commemorations. Anniversaries. Jubilees. Parades. Trooping of colours. Reviews, inspections	.2	Maintenance of morale, fighting spirit, will to win. Censorship. Propaganda —070.14; 355.4
.17	Military ceremonial	.245	Protection of civilians —355.58
.2	Recruitment of forces. Requisition of supplies, resources. War potential. Levies	.247	Compulsory civilian service. Direction of civilian labour —355.212.7
.21	Recruitment of armed forces. The troops. Personnel. General obligations of citizens as regards national defence —356.34	.25	Accommodation of civilian services. Removal of administrative offices. Evacuation of officials. Regional seats of government (UK)
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.2	General conscription. National service	.252	Duration, length, of service. Service period generally
.3	Militia system Reserve force. Territorial army	.253	Designation, detailing, posting. Personnel selection
.212	Formation of contingent. Obligation to serve. Exemptions. Deferments	.254	Call-up. Training
.1	Enrolment. Registration	.255	Various classes of soldiery
.2	Examination. Re-examination	.257	Promotion: by seniority, by selection
.3	Exemption. Dispensation. Deferment	.7	Suspension of activity. Interruption of service. Leave
.4	Exclusion, rejection, from service	.27	Captivity. Internment. Prisoners of war —341.34
.5	Contingency reserve (untrained)	.271	Military mobilization
.7	Civilian service —355.245	.272	Declaration of emergency, of danger of war —341.31
.215	Military tax	.273	Mobilization of front-line troops
.216	Voluntariate. Mercenary service	.274	Mobilization of reserves, territorial army etc.
.217	Re-enlistment	.275	Calling up of young persons, below service age
.218	Call-up of reservists	.277	Mass call-up. <i>Levée en masse</i> . <i>Landsturm</i>
.219	Special procedure in maritime populations Seaboard conscription (<i>inscription maritime</i>), registration for navy	.278	Civilian measures at frontiers, borders
22	Military requisitions. Commandeering		Industrial mobilization. Mobilization of civilian manpower —355.241
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.222	Animals —636	.1	Demobilization. Retirement. Pensions
.223	Vehicles —355.243; 629.1	.5	Desertion
.224	Provender. Fodder	.6	Death
.225	Victuals. Provisions	.292	Veterans. Ex-servicemen. War-wounded, invalids. War widows and orphans
.226	Other movable items		
.227	Immovables		
.23	Recruitment of officers and subalterns. Military training centres. Military schools, colleges, academies —37		
.231	Military schools for training of officers and subalterns		
	Military cadet schools		

355.292.2	Former, retired, soldiers. Ex-servicemen	355 335	Junior officers. Subalterns
3	Former combatants. War veterans.	1	Third (top) level of junior officer. (Army)
	Ex-prisoners of war		Captain. (Naval) Lieutenant
.4	War-wounded, invalids	2	Second level of junior officer. (Army)
.5	Ex-members of resistance, underground, Maquis		Lieutenant, First Lieutenant. (Naval)
.6	War orphans	.3	Sub-Lieutenant.
.7	War widows		First level of junior officer. Second
.91	Civilian war victims, casualties	.336	Lieutenant. Midshipman. Ensign
.293	War dead. The missing in war		Other ranks. Warrant officers
.3	General organization of the armed forces	.1	Non-commissioned officers (NCOs)
.31	Army formations and units		Fourth (top) level of other ranks. Warrant
.311	Units larger than a regiment		Officer Class I. (Regimental) Sergeant-Major
.1	The army as a whole	.2	Chief Petty Officer
.2	Army groups, formations		Third level of other ranks. Warrant Officer
.4	Army corps		Class II. Senior Quartermaster Sergeant.
.5	Divisions. Infantry divisions		Quartermaster Sergeant. Petty Officer First
.6	Brigades	.3	Class
.7	Supreme command of army. Inspectorate General	.4	Second level of other ranks. Sergeant. Petty
.8	Local, territorial commands. Fortress commands, commandantships	.337	Officer Second Class
	355.311.8(1-2) Local commands, commandantships	.1	First level of other ranks. Lance-Sergeant.
.93	Light formations. Mobile units Flying columns	.2	Corporal. Lance-Corporal. Leading Seaman
.97	Occasional formations. Parade formations Inspections	.338	The ranks, rank and file, common soldiers
.312	Regiment. Legion. Large array. Phalanx (e.g. Greek)	.1	(Private. Enlisted man. Ordinary Seaman)
.313	Battalion. Group of squadrons or batteries. Array	.3	Conscripts. Militiamen
.314	Company. Squadron. Battery	.4	Volunteers. War volunteers Professional soldiers
.315	Half-company. Troop. Platoon. Section	.34	Civilian personnel in the armed forces
.316	Small units. Squads. Combat groups. Commandos	.341	Officials. Civil servants
317	Various special units. Sectional commands Musicians' corps, bugle corps. Sappers. Pioneers	.342	—35.08
.318	Special corps	.343	Employees. Clerks etc.
.1	Guards. Elite corps		Manual workers. Labourers
.2	Service in foreign army. Foreign contingents. Foreign Legion, Swiss Guard etc.	.1	Specialists, trades, functions (irrespective of rank or branch of service)
	355.318.2(44) Of France: French Foreign Legion	.18	<i>For specialized corps — 356/359</i>
	(456.31) In Vatican: Swiss Guard	.2	Employment of officers on special duties (other than normal duties of rank). Special officers. Educational duties etc.
32	Naval formations and units	.3	Employment of other ranks on special duties (other than normal duties of rank). Special warrant officers, NCOs
321	The fleet as a whole	.4	Specialities common to all services and various ranks
.322	Naval fighting force	.6	Signalers. Communications staff (telegraphists, radio operators) Orderlies
.324	Squadron sections. Individual fleets	.7	Dispatch riders
.326	Particular classes of ship	.8	Interpreters. Translators
.33	Hierarchic divisions. Ranks	35	Drivers. Chauffeurs. Motor (automobile) mechanics
.331	Command in general, its adjuncts. High Command. Commander-in-Chief. Inspector General. Second-in-Command. Adjutant-General. Acting Commander. Aide de Camp. Adjutant	.351	—357.56
.332	Officers in general	.1	Instructors: sports, gymnastics, swimming
.1	College-trained, academy-trained officers	.2	Clerical staff, secretaries, librarians
.2	Officers risen from the ranks	.3	Craftsmen. Skilled wood, metal workers etc.
.4	Reserve officers	.5	Sappers
.333	Commanding officers. General Staff —356.21	.5	Use of soldiers in various non-craft jobs.
.1	Head of state as Commander-in-Chief of the armed forces	.352	Cooks. Barbers. Batmen
.3	Fourth (top) level of commanding officer. Field Marshal. Admiral of the Fleet	.353	Music corps. Bandsmen
.4	Third level of commanding officer. General. Admiral	.1	Main divisions of the forces. General staff
.5	Second level of commanding officer. Lieutenant-General. Vice-Admiral	.3	—356.2
.6	First level of commanding officer. Major-General. Rear-Admiral	.354	Land forces. Home-based army
.334	Field officers	.355	Active troops. First-line army
.1	Third (top) level of field officer. Colonel. (Naval) Captain. Commodore	.356	Second-line army. Reserves
.2	Second level of field officer. Lieutenant-Colonel. Commander	.357	Third-line army. Territorial army. Home Guard
.3	First level of field officer. Major. Lieutenant-Commander	.358	Army back-up services. Supplies, provisions, clothing services. Stores, depots
			Colonial forces
			Sea-borne forces. Navy
			Fighting fleet. War fleet. High Seas Fleet
			Auxiliary fleets
			Coastal defence
			—351.749.2; 359.34
			Aerial forces. Air force
			Occupation forces. Army of occupation
			United forces of alliances, coalitions.
			Combined allied forces
			International, supranational forces, e.g.
			United Nations peacekeeping force
			Secret forces. Covert armies and armaments

355.4	War operations in general. Tactics. Strategy. Theatre of war. History of campaigns	355.425	Warfare by irregular and illegal forces —356.15
.40	Intelligence. Gathering, study and transmission of information. Secret service. Espionage. Spying —327.84; 341.326; 343.32; 356.251	.2 .4 .6 .426	Fifth columns Partisan warfare. Guerilla warfare. Resistance movements Sabotage Civil war. Street fighting. Barricades. Riots. State of siege. Rebellion Colonial tactics Strategy Concentration. Deployment Strategic operations General plans of operations. Plan of campaign Siege warfare. Attack and defence of positions Methods of attack. Land blockade. Bombardment. Assault Methods of defence. Repelling, repulsing of attack Mine warfare Capitulation. Surrender Defence of the realm. National defence Strategic lines of communication Entrenched camps. Defensive fortified areas and positions Barrier forts Garrison Military division of territory. Distribution, disposition, positioning of troops Cover troops Defence of land areas, land frontiers Defence of sea frontiers, of maritime, coastal areas Sea and airborne operations. Naval warfare. Aerial warfare —623.8/9
.401	Organization of intelligence	.427	Naval tactics, offensive and defensive Naval strategy on the high seas. Fleets. Destroyers. Torpedo boats. Submarine warfare Coastal operations. Coastal attack. Naval blockade Mobile defence at sea Fixed underwater defences. Mines. Torpedoes Aerial operations. Air strategy —623.76
.404	Sources of information. Military attachés. Aerial reconnaissance. Espionage	.43 .431 .432 .433	Aerial combat, pursuit, engagement. Air reconnaissance. Propaganda flights Aerial bombardment, bombing. Gas attacks Landing. Aerial invasion. Troop landings. Parachuting. Aerial blockade —356.169
.405	Transmission and security of information	.44	Mobile defence in the air Air defences on the ground Fixed ground defences Mobile ground defences Military geography —623.64; 91 355.47(450) Military geography of Italy Military history. Wars. Campaigns. Battles. Military feats, exploits —93/99
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.2	Codes. Ciphers. Encoding, enciphering. Decoding, deciphering	.442 .443 .445 .45 .451 .452	
.7	Censorship as protection of secrets. Military censors	.443 .445 .45 .451 .452	
.41	Logistics and field service generally	.441	
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.412	Tactics of halting. Halts. Stationing	.443	
.413	Exploration, look-out, reconnaissance and security work, on the march and at halt. Outposts. Advance guard. Rear guard. Flank guard	.445 .45 .451 .452	
.415	Operation of ancillary military services in the field	.453 .454 .455	
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.4	Quartering. Camps. Hutments —355.67; 355.71	.456 .457 .458	
.5	Arsenals. Ordnance, artillery parks	.456	
.6	Health, medical service. Evacuation of wounded. Veterinary service	.457 .458	
.7	Field communications. Military post, telegraph, telephone, radio	.46	
.8	Care of prisoners of war	.461	
.42	General tactics. Tactics of large formations	.462	
.421	Tactics of combined arms. Liaison of commands and troops	.463	
.422	Engagements in general. Combat. Battles <i>Details as described under 355/359, e.g. 355.422-611 Infantry battles (from 356 11)</i>	.464 .465 .469	
.1	Offensive combat. Attack. Advance-guard action	.464 .465	
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.5	Retreat tactics. Withdrawing manoeuvres. Delaying tactics	.3	
.6	Destruction of positions, equipment etc when retreating	.4	
.423	Influence of terrain on operations. Forest, mountain, river combat. Urban combat, warfare in inhabited areas	5/ 6	
.424	Use of various devices on the battlefield 355.424:623.454.71 Use of flame-throwers	.5 .6	
.1	Temporary fortifications and fieldworks. Trenches —623.12; 623.15	.47	
.2	Physical communications. Bridges. Pontoons. Boats —623.6	.48	
.3	Liaison, communication, transmission systems —355.415.7	.483 .486	
.4	Balloons. Aircraft. Dirigibles. Anti-aircraft measures. Flak	.489	
.5	Vehicles. Cycles, bicycles. Motorcycles. Automobiles. Jeeps. Armoured cars. Anti-tank measures —356.5	.49 .5	
.6	Animals. Dogs, e.g. watchdogs. Carrier pigeons —355.683	.51 .511	
.7	Replacement of munitions. Ammunition supplies	.1	
.8	Evacuation of wounded. Ambulances. Field hospitals	.2	

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.514	Service in the field	.648	Deductions
.515	Return to peacetime status. Demobilization	65	Provisions. Food. Victuals. Military catering
.518	Dissolution of a unit	.651	Peacetime rations
.52	Manoeuvres. Field exercises. Training camps	652	Field rations
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.523	Army manoeuvres	.656	Storage of provisions in depots, warehouses
.524	Tactical exercises of combined forces.	.657	Organization of daily meals. Cooking. Field kitchens
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.533	Marches	.2	Headgear
.534	Halts	.3	Footwear
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.54	Basic training of units. Tactics. Exercises.		
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.2	Armed exercises. Combat exercise. Battle drill	672	Furnishings. Bedding
		.673	Heating. Lighting. Ventilation. Cleaning
3	Handling of arms. Arms drill, rifle drill	674	Encamping. Camps. Encampments
.542	Mounted exercises. Drill with horses. Drill with vehicles	.675	Various materials and equipment for the unit
.4	Motor vehicle exercises	.68	Other materials and equipment in army use, but not inherently military
.5	Exercises with airborne devices: balloons, aircraft	.683	Animals in army use, e.g. horses
			—355.424.6
.543	Artillery exercises	684	Teaching materials
.2	Gunner schools. Gun laying, ranging, aiming.	.687	Medical materials
	Gunnery practice	.69	Military transport. Troop and supply movements
	—623.5		
.544	Field-works. Fortification		Special auxiliary subdivisions
	—623.6	355.69.01/.09	Transport organization. Traffic management
.55	Officer training. Training of specialists		355.69.01/.09 ≈ 656.01/.09
551	Officer exercises. General staff tours		Principal divisions
.559	War games (with maps, models etc.)	355.69.1	Road transport
.58	Organization and training of civilian population. Civil defence. Air raid precautions (ARP)		—357.3; 623.437
	—347.828; 351.759.4; 355.244.2; 623.76/.77; 643.88; 699.85	.2	Rail transport
582	Observation. Observation posts. Observer corps	.3	Water transport: inland, sea
.583	Warning systems. Air-raid warnings. Sirens etc.	.4	Air transport
	—654	.692.1	Transport of provisions
.585	Passive defence measures. Blackout.	.692.2	Transport of equipment and materials
	Camouflage of buildings	.3	Transport of men and animals
	—623.77; 628.978.7; 699.85	.4	Transport of munitions, ammunition
.586	Education and informing of the public about civil defence	.695	Fuels. Lubricants
587	Protective equipment and materials. Rescue gear	.7	Military establishments: organization, functions
	—614.8; 623.445; 623.454.76; 623.459.6		—623; 725.18
.588	Measures in case of damage, injury.	.71	Troop quarters. Accommodation
	Organization of rescue services		—355.415.4; 355.67
.6	Military administration	.711	Barracks. Quarters. Guardhouse
	—356.3	.1	Living quarters in barracks
		.2	Communal and assembly areas. Mess halls. Canteens
		.3	Private living quarters for servicemen and their families. Married quarters
		.4	Temporary accommodation, in transit. Transit hostels. Transit camps
		.9	Stables. Riding schools
		.712	Troop quarters in fortresses

355.714	Schools as quarters	356.331	Doctors. Medical officers
.715	Prisons as quarters	.332	Pharmacists
.716	Camps. Encampments	.333	Veterinary surgeons
.717	Billeting. Lodging with local inhabitants	.334	Medical orderlies. Stretcher-bearers, ambulancemen
.718	Quarters aboard ship		Recruiting service
.719	Equipment and furniture of quarters	.34	Military justice and judicial service. Military security. Department of Judge Advocate
.72	Medical establishments	.35	General. Military police. Provost marshals
	—356.33		—355.511.6
.721	Military hospitals		Teaching staff. Instructors
.724	Field hospitals. Dressing stations. Field dispensaries	.361	—355.233; 355.343.3
.725	Sanatoriums. Convalescent homes	.362	Translators. Interpreters
.727	Medical arrangements aboard ship		—355.343.18
.73	Artillery establishments. Cannon foundries. Munitions factories. Ordnance factories. Arsenals	.363	Military chaplains, padres, preachers
	—623.42; 623.483/.485	.37	Service behind the lines. Back-up services. Base and communications
.739	Artillery ranges. Proving grounds		CAVALRY. MOUNTED TROOPS.
.74	Military engineering establishments. Workshops etc.	357	MOTORIZED TROOPS
.75	Establishments of administrative services, supplies etc.	.1	Cavalry: personnel, organization
.751	Provisions factories. Food depots. Bakeries etc. Fodder stores	.2	Remount depots. Training of horses. Studs
	—63; 663/664	.3	—636; 798
.752	Clothing and canvas supply. Garment factories. Tent factories. Clothing stores	.5	Supply trains. Transport corps. Service corps
	—685.531; 687	.51	Motorized troops. Cyclists. Motorcyclists.
.753	Repair and servicing establishments	.52	Motor-vehicle troops
.76	Aeronautical establishments. Aerostation (ballooning), aviation (as ancillary military services)	.53	—355.424.5; 358.119
	—623.74	.56	Cyclists
356/358	INDIVIDUAL BRANCHES OF LAND AND AIR FORCES	.57	Motorcyclists
		358.1	Motor-vehicle troops
356	ARMY SERVICE GENERALLY. INFANTRY. FOOT SOLDIERS	.11	—355.691.1; 623.437
	356-055.2 Females serving in army.	.111	Technical corps. Repair and maintenance services: mechanical, electrical
	Women's corps	.112	—355.343.2
.1	Infantry: personnel, organization	.113	Fuel supply
.11	Special infantry formations in the home army	.114	Artillery
.111	Infantry of the line	.115	Special artillery corps of the home army
.113	Foot chasseurs (light infantry)	.116	Field artillery
.114	Alpine, mountain troops	.117	Foot artillery. Fortress artillery
.116	Cyclist troops. Motorized infantry	.118	Emplacement artillery. Siege artillery. Coast artillery
.118	Assault troops	.119	Mountain artillery
.13	Groups occasionally mobilized. Fire service. Frontier officials (Customs, border guards). Forest rangers. Railway personnel. Posts and telecommunications staff	.13	Heavy artillery. Railway artillery
.15	Irregular troops, commands units etc., existing only in wartime. Francs-tireurs. Guerilla fighters	.2	Anti-aircraft artillery. Anti-tank artillery
	—355.425	.231	Trench artillery. Accompanying artillery Close support artillery
.16	Specialized divisions of infantry	.232	Tractor-drawn artillery. Tracked, caterpillar-tracked, artillery
.161	Fusiliers	.233	Armoured units. Tank corps
.162	Grenadiers	.234	Technical services for artillery. Armourers.
.165	Machine-gunners	.235	Chemical warfare, gas warfare, personnel
.168	Commandos	.236	Engineers' corps. Special units
.169	Parachute troops. Airborne troops	.3	—623
	—355.469.3		Pioneers
2	General staff: personnel, organization		Sappers. Miners, minelaying corps
	—355.35		Pontoneers. Bridging troops
21	Staff officers		Transport corps: rail, road, water
	—355.333		—355.69
22	Cadet, probationary, attached officers	.31	Balloonists. Balloon corps
23	Staff archivists, records officers		—355.424.4; 355.76; 358.4
24	Other ranks serving general staff. Staff clerks	.33	Telecommunications corps. Signals corps
25	Duties and specialities of general staff		—355.415.7
251	Intelligence. Information services	.41	Technical specialities in the army
	—355.40	.42	358.3:528 Military geodesy, surveying, cartography
252	Scientific and technical services	.421	:551.5 Military meteorology, weather forecasting
3	Administrative and auxiliary services: personnel, organization		Construction and manufacturing services for war materials and equipment. Ordnance engineers
.32	Commissariat service. Quartermaster corps.		Military building construction services.
.33	Ordnance service. Ordnance corps.		Military works engineers
	Medical service		—355.7
	—341.33; 355.72; 362.191.1; 613.67		Camouflage services
			—355.585; 623.77
			Military aviation. Flying corps. Air force
			—355.354; 355.469; 359.38; 623.7
			Organization
			Units. Formations
			Observation, reconnaissance units

358.422	Combat and pursuit units. Fighter command	36.058.74	Family care (care in a family)
.423	Bomber command	.75	Home care. Home helps
.424	Ground units, stations	.76	Mutual aid. Reciprocal help
.425	Auxiliary units	.77	Self-help
.43	Personnel. Officers. Pilots. Gunners. Bomber crew etc.	.78	Sponsorship
		.8	Welfare measures
		.81	Testing of poverty. Means tests
359	NAVAL FORCES. MILITARY FLEET. NAVY: PERSONNEL, ORGANIZATION	.82	Actual welfare work
	—355.32; 355.353; 355.46; 623 8/.9	.83	Educational measures
1	Units designed for service of the fleet	.84	—37
.11	Personnel of vessels. Crew	.85	Protective measures Protective custody
.12	Military port, harbour, dockyard personnel		Economic measures. Provision of employment. Job creation
.13	Mechanical engineering personnel	.86	Publicity measures. Dissemination of information
.14	Armourers		Methods of welfare
.15	Labourers	.9	Preventive welfare
.16	Reserve personnel	.91	Remedial welfare
.2	Specialized naval personnel	.92	After-care
.21	Combat personnel. Naval gunners. Rifle marines. Torpedo-men	.93	Individual welfare, casework
.22	Seamen. Deck hands. Helmsmen Topmen Sailmakers. Pilots	.95	Group welfare. Community organization
.23	Engine-room personnel. Naval engineers. Stokers	.97	General organization of welfare
.3	Troops and other personnel on naval service, aboard ship or on coastal defence	.07	Establishment. Development. Centralization. Decentralization. Regional, geographical, divisions
.31	Marine infantry	.071	Relations with bodies corporate in public law.
.32	Marine artillery		Delegation of welfare work to private organizations and persons. Supervision
.33	Naval constructors. Naval architects	.6	Supervision. Inspection. Control
.34	Various coastal defence corps	.073	Financing of welfare
	—351.749.2; 353.353.5	.2	Complete financing from public funds
.35	Signallers and observers. Semaphore personnel	.21	Subsidies
.38	Naval aviator corps. Fleet air arm	.51	Wealth. Capital. Interest
	—623.7	.511	Bequests. Gifts. Donations. Interest from bequests, gifts
4	Naval technical services	.514	Income from members' subscriptions
.41	Construction of hull and machinery	.516	Income from charity fêtes, bazaars etc.
.42	Hydraulic engineering	.517	Income from collections, flag days
.43	Naval artillery	.518	Relief funds
.5	Naval administration and supervisory services	.53	Administrative costs
		.075	Welfare organs and organizations
.51	Inspection of administration. Superintendents	.1	High-level welfare organs and organizations.
.52	Administrative personnel		Central, national welfare associations
.53	Recruitment personnel		National welfare centres
.6	Naval medical services	.17	Subordinate organs and organizations. Local welfare associations. Welfare offices, departments. Youth welfare departments
.61	Doctors. Medical officers	.2	Executive, operative services. Welfare centres: local authority etc.
.62	Pharmacists	.5	Institutions: management, costs, staff
.63	Medical orderlies. Stretcher-bearers etc.	.076	Authority and disposition of welfare work
.7	Naval justice and judicial service. Naval security. Naval police, provosts	.1	Competence. Sphere of authority
.8	Other naval personnel. Naval chaplains. Naval bandmasters. Hydrographers etc.	.125	Limits and spatial boundaries of authority: local, regional
36	SOCIAL WELFARE. RELIEF. INSURANCE	.51	Right to welfare, relief
	—351.84	.52	Obligation to provide welfare, relief
Special auxiliary subdivisions	36.01/.06 $\approx$ 06.01/.06 with the following extensions.	.55	Status of welfare as last resort. Application of public relief after exhausting of other resources
	<i>Not applicable under 368</i>		
36 01	Theory and principles of social welfare	.077	Actions. Formalities. Services
.011 3	Aims. Purpose		36.077.1/.7 $\approx$ 35.077.1/.7, e.g.
.33	Concept of community in social welfare		36.077.3 Procedure. Formalities
.36	Success of social welfare	.8	Benefits. Costs. Reimbursements
.4	Dangers of welfare. Combating of abuses	.81	Welfare expenditure. Disbursements
.6	Causes of indigence, poverty	.811	Costs of welfare. Burden of expense
.05	Social assistance	.812	Maintenance allowances
.058	Implementation of assistance	.1	For subsistence
.1	Qualification for assistance	.2	For accommodation
.12	Service in return	.4	For transport, travelling expenses
.13	Selection, screening, of applicants	.813	Standard rates of allowance
.2/.5	Forms of assistance	.816	Duration of assistance
.2	Financial, monetary, support	.82	Equalization of burden. Distribution, sharing, of costs
.4	Support in kind, in goods		Refunds. Reimbursements. Compensation for expenses
.5	Privileges, concessions	.83	Obligation of maintenance, on third parties
.7	Forms of welfare		Restriction of welfare benefits
.71	Family welfare (assistance of families)	.834	Arising from circumstances of recipient
	—362.17; 362.55	.84	At instance of welfare authority. Exclusion, disqualification
.72	Community (non-institutional) care	.842	
.721	Semi-institutional care	.844	
.73	Institutional care		

36.08	Social workers. Welfare workers	362.18	Assistance in case of accidents, injuries.
	36.08:351.77 In public health work. Health visitors	.19	Disability allowances
	:352 In local authorities. Municipal welfare workers	.191	Various other welfare activities
.081	Position, functions of social workers	.1	Care of wounded in wartime
.41	Educators		Red Cross
.42	Care and welfare workers. Nurses. Visitors. Helps	.193	—341.33
	—36.058.75	.2	Prevention and combating of epidemics, social diseases
.082	Selection and admission of social workers	.3	Care of mentally disturbed, insane, lunatics
	36.082 = 35.082		Care of the subnormal, feeble-minded, imbeciles. Psychopaths. Retarded children
.087	Legal status of social workers	.4	—376.4
Principal divisions			Care of the physically handicapped
		.41	—376.2
362	MAIN BRANCHES OF SOCIAL RELIEF AND WELFARE. ESTABLISHMENTS.	.412	Care of the visually handicapped, blind, partially sighted
	INSTITUTIONS. RECIPROCAL AID ARRANGEMENTS	.42	Institutions for the blind
	<i>362 and its subdivisions are being cancelled, and will be deleted from the next edition. The concepts here are being relocated, mainly in 364. Prefer the subdivisions of that number if the required concepts are traceable there</i>	.421	Care of the deaf and dumb, deaf mutes
		.43	Institutions for deaf mutes
.1	Medical care. Welfare of sick, injured, handicapped, the family	.44	Care of the speech-defective, persons with speech impediments
	—614.39	.45	Care of the hearing-defective, deaf, hard of hearing
.11	Care in hospitals, infirmaries, nursing homes	.451	Care of the disabled, crippled, handicapped in limb
.111	Public hospitals etc.	.5	Homes for the disabled
.112	Private hospitals etc.	.51	Welfare of the poor, destitute, needy
.113	Special hospitals etc. Military hospitals	.52	Welfare of beggars, vagrants, tramps
.115	Training, retraining, occupational therapy in hospitals	.53	Vagrants' homes, hostels, shelters.
.118	Social life in hospitals. Visiting hours. Festivities. Special occasions	.54	Doss-houses. Workhouses
.12	Treatment in clinics, health centres, diagnostic institutes, out-patient departments, private clinics	.55	Monetary help. Financial support. Cash handouts
.13	Treatment in sanatoriums, convalescent homes, health cure establishments, spas, e.g. 362.13:616-002.5 In sanatoriums for tuberculosis	.56	Material support. Help in kind. Food, meals.
.14	Public assistance of the sick	.57	Soup kitchens. Clothing
.141	Medical treatment	.58	Family welfare
.143	Monetary sickness benefit	.6	—36.058.71; 362.17
.144	Family, maintenance, assistance	.61	Labour colonies. Work settlements
.145	Provision of medicines, drugs	.62	Settlement on land. Provision of allotments
.146	Provision of other medical materials, appliances etc.	.65	—332.364
.147	Supervision and care of particular kinds of invalid	.654	Aid to needy war victims
	<i>Details by :616</i>	.655	Welfare of the aged, elderly, old people. Care of the infirm
.15	Maternity care and welfare	.656	Homes for the elderly. Institutions for the infirm
	—368.45	.67	Pensions. Retirement funds. Widows' and orphans' benefits
.151	Pre-natal, antenatal care	.7	—331.171
.152	Medical treatment		Welfare of other sick persons, invalids
.153	Assistance with confinement costs. Maternity grants		Welfare of victims of industrial accidents and diseases
.154	Maternity benefits at childbirth		Welfare of war-disabled, bereaved. Injured ex-servicemen. War widows. War orphans
.155	Nursing mothers' allowances		Welfare of civilian disabled. Injured rescuers, lifeguards etc.
.156	Maternity homes		Death benefits
	—362.71		—362.96
16	After-care. Recuperation. Convalescence		Child welfare
	—36.058.93; 362.13		—362.3
17	Family welfare. Policy on family affairs	.71	362.7(100) International: UNICEF (United Nations International Children's Emergency Fund, now United Nations Children's Fund)
	—36.058.71; 362.55	.711	Infant welfare
171	Marriage guidance, counselling	.712	—362.155/.156; 362.17
172	Instruction in mothercraft, infant care.	.714	Infants' homes
	Welfare of mothers	.72	Crèches. Day nurseries
173	Mother and child	.73	Care of young children
.174	Marriage allowances. Family allowances	.731	Welfare of illegitimate children
	—368.45	.733	Welfare of orphans
.175	Family income supplements		Orphanages
	—331.226	.734	Participation in tutelage. Official guardianship
176	Welfare of large families		—347.64
.177	Welfare of unmarried mothers	.74	Adoption
.178	Family planning. Contraception or birth control advice	.742	—347.633
		.1	Care and protection of neglected children
		.2	—179.2
			Kinds of neglect, ill-treatment
			Physical, bodily neglect
			Mental, intellectual neglect

362.742.3	Moral neglect	364.122.8	Changes in social norms, patterns, values
.745	Child prostitution	.124	Problems of economic and technological change
.746	Trade in children		Industrialization
.748	Child labour: investigation, supervision, control	.2	Conglomeration. Displacement of small business by big business
.75	Fostering. Foster children. Foster homes	.4	Changes in working methods. Mechanization. Automation. Obsolescence of trades and professions
.76	School welfare	.6	Changes in public administration, in processes of government
	—371.217		Effects on well-being, of changes in social structure. Changing family life. Generation gap. Alternative social forms, communes etc
.761	Nutrition in schools. School meals. School milk etc.	.126	Social inequality. Cultural plurality
.767	Sending away of schoolchildren. School holiday trips	.14	Specific problems affecting well-being.
.768	Recuperative, remedial care of children. Children's convalescent homes. Children's villages		Various problems requiring distinct forms of relief
.77	Assistance to the young poor, destitute, needy	2	Financial need
.78	Care of sick children. Children's health and holiday centres. Children's nursing homes	.22	Problematic working context. Unemployment. Free time. Unoccupied leisure
.8	Homes for disabled children etc	.23	Social barriers in education, cultural development
.82	Youth welfare. Care of young persons	.24	Environmental effects
.83	Mental development and guidance of young persons	.25	Health effects
.84	Sports provision for young persons	.26	Defects in physical health. Bodily impediments
.841	Youth facilities (for both sexes)	.262	Physical neglect, e.g. inadequate personal hygiene
.845	Youth clubs	.263	Defects in mental health. Personality problems
.85	Leisure activities	.264	Mental, intellectual, neglect
	Youth protection generally. Youths, male young persons, in need of care and protection	.265	Psychosomatic complaints
	—376.5	.266	Psychological and sociopsychological disabilities. Maladjusted behaviour
.86	Care and welfare of girls and young women. Female young persons in need of care and protection	.27	Addiction (narcotic, alcohol etc.). Drink problem
.863	Railway-station missions. Travellers' Aid Society etc.	.272	Deliberate homelessness. Vagrancy. Tramps
864	Homes, hostels, for girls and young women	.273	Isolation. Solitude. Loneliness
865	Provision of employment, work, jobs	.274	Fear of death
868	Traffic in girls. White slave trade	.275	Distress of the dying
	—326.1; 343.545	.276	Suicide
.9	Welfare of other classes of person	.277	Problems of attitude to life. Alienation. Withdrawal
.91	Welfare of particular religious groups	.278	Problems of personal relationships. Sexual deprivation. Breakdown of marriage
.92	Welfare of foreigners, aliens, immigrants		Problems of relation of the individual to the law, as affecting well-being
	Welfare of nationals abroad. Welfare of refugees. Welfare of returning expatriates	.28	Kinds of relief service
.93	Welfare of military personnel, servicemen	.29	Services directed at individuals and families
	Forces' clubs, canteens, shops etc., e.g. NAAFI (Navy, Army and Air Force Institutes - UK), PX (Post Exchange - USA)	.4	Material assistance
	—362.191; 362.655	.42/.44	Financial, monetary, support
.94	Assistance to middle classes, higher levels of society	.422	Support in kind, in goods
.942	The new poor, the humiliated. Distressed genteel folk	.424	Non-material assistance
.944	Assistance to those living of savings, small pensions etc. Persons of small private means	.44	Social services
	Victims of slump, recession etc.	.442	Social work. Social counselling
.95	Welfare of those in particular occupations, professions, and their families	.2	Help in the home, household. Home helps
.96	Provision for funerals. Burial or funeral expenses	.4	Protective service
.97	Welfare of the unemployed	.6	Help with attitudes and adjustment
	—331.56/.57	.8	Social medicine. Social health care: physical, mental
364	SOCIAL PROBLEMS REQUIRING RELIEF AND ASSISTANCE. KINDS OF RELIEF SERVICE	.444	Socio-cultural welfare. Education, teaching, training. Welfare in working environment, in leisure, free time. Cultural and creative activities
.1	General problems affecting well-being	.446	Community work. Social activities in connection with regional and local development
.12	Material and abstract problems of persons and groups consequent on social and technological change	.46	Participation of the people in decision-making. Democratization. Grass-roots democracy
.122	Problems of social change	.462	Provision of information to the community. Cooperation in research and social planning
.2	Increasing impersonality of society. Loss of identity through bureaucratization, mass society	.463	Individual and group enlightenment. Improving of awareness of environment and living conditions
.4	Increase of scale	.464	Social assistance of particular groups in society. Integration and conciliation work
.5	Urbanization	.465	Promotion of interest in cooperation and social assistance
	—312.92; 711.13; 911.375		
.6	Decay of older districts. Inner city blight	.466	
.7	Growth of new districts. Urban sprawl		

364.467	Encouragement and furtherance of citizens' initiatives, self-help groups, social action	368.025.18	Making of payment. Onus. Place. Method: cash, cheque, credit transfer etc.
.48	Social infrastructure	.2	Object of insurance: persons or things at risk of damage or injury
.6	Persons involved in social welfare	.3	Object of insurance: property or item of property at risk of loss
.62	Helpers. Welfare workers	.4	Insured value. Valuation
.65	Recipients. Persons in need of help	.5	Sum assured
368	INSURANCE. COMMUNAL PROVISION THROUGH SHARING OF RISK	.51	Full assurance. Partial insurance
Common and special auxiliaries		.53	Insurance of current value. Adjustable insurance
368-03	Kind of illness, invalidity, as insurance risk	.54	Over-insurance. Under-insurance. Insurance of true value
-05	Insurance of various kinds of person	.55	Supplementary insurance
-06	Previous state of health	.56	Unlimited liability
368.01	Theory. Scientific principles of insurance. Actuarial theory	.57	Fixed-value insurances
.013	Kinds of insurance in general. Comparative studies. Insurance of certain risks. Assurance of certain sums	.6	Risk insured. Nature and classification of risks
.015	Disablement. Inability to work. Invalidity	.61	Determinate risk in general, simple (elementary), integral
.02	Technique and methods of insurance	.62	Alteration of risk during term of insurance
.021	Insurance management in general	.63	Risks in time of strikes, civil disturbance, war
.1	Recruiting of policy-holders. Canvassing. Publicity	.65	Excluded risks
.2	Arrangement of contract	.66	All-risk insurance. Comprehensive insurance
.21	Proposals. Forms. Question sheets	.7	Damage. Loss. Abandonment
.22	Declaration. Proposer's duty of disclosure	.71	Generalities. Causes
.23	Notice of acceptance	.72	Evidence, proof of loss or damage
.24	Preliminary investigation, examination, at charge of insurer	.73	Prevention of loss. Limitation of damage
.25	Preliminary valuation	.74	Notification of loss or damage
.26	Fixing of sum insured, amount of insurance, premium etc.	.75	Verification of loss or damage
.28	Cover note	.76	Extent of loss or damage. Total, partial loss. Write-off
.022	Insurance contracts in general	.8	Compensation for loss or damage. Indemnity
.1	Forms of contract: oral, written. Wording —347.135	.82	Calculation of indemnity
.4	Taking effect. Effective date	.84	Amount of indemnity
.5	Duration. Time restrictions. Renewal	.85	Settlement of claims
.6	Restrictions of place. Extramural insurance. Insurance of property on journeys	.86	Agreement of parties to the settlement
.8	Alterations and additions to contract	.87	Payment of indemnity
9	Extinction of contract	.88	Redemption of claim. Surrender of policy. Lump-sum settlement
.91	Extinction in general. Expiry	.026	Subrogation to the insured party, of beneficiary's claims on liable third parties
.92	Termination of contract. Notice of cancellation. Waiver	.027	Kinds of policy
.93	Redemption. Conversion. Transfer	.2	Reserves. Covering of liabilities. Covering funds
.96	Suspension	.3	Covering from share capital
.97	Nullification. Annulment	.4	Reserves. Assets
.023	Parties to the insurance contract	.7	Deposit of security bonds
.1	Insurer. Underwriter	.8	Relation between covering funds and premium
.2	Insurant. Policy-holder	.028	Use of profits
3	The insured	.029	Commission
.32	Personal, individual insurance	.03	Reinsurance. Risk transference
33	Collective, group insurance	.031	Kinds of insurance firm, business, undertaking
.4	Beneficiaries	.032	Insurance under public law. Official, state, national insurance
5	Intermediaries. Insurance salesmen. Agents. Brokers	.1	Private insurance
.6	Assignees	.2	Commercial insurance companies. Joint-stock companies
7	Indemnities	.3	Mutual insurance. Friendly societies, syndicates
8	Allocates	.4	—334.3
024	Insurance on one's own account, on others' account. Self-insurance	.5	Mixed companies
025	Details of insurance contracts	.7	Liability joint and several. Mutual liability
1	Premiums. Rates, tariffs. Quotation. Payment	.034	Association of underwriters: Lloyd's (of London)
11	Kinds of premium generally. Gross, net; fixed, variable premiums	.036	Mixed-economy organizations, part state-owned
.12	Special kinds of premium. Investment premium. Risk premium. Natural premium etc.	.04	Public intervention in insurance business. Supervision. Approval
13	Calculation of premium	.041	Voluntary and compulsory insurance
14	Alteration of premium during term of insurance	.042	Voluntary insurance
15	Refund of premium. Cancellation rebate. Indivisibility	.06	Compulsory, obligatory insurance
.16	Payment of premiums: in advance, in arrears	.061	Medicine in insurance business. Control. Abuses
17	Days of grace	.067	Medical relationships. Choice of doctor
	Duration and frequency of premium payments	.068	Non-medical control and abuses
			Typical phenomena associated with insurance

368.068.2	Adaptation of insured party to conditions of insurance	368.236	Insurance against average, shipping losses —347.796
.3	Simulation. Malingering	24	Insurance of air transport —347.824.4
.4	Compensation neurosis		
5	Excessive medical treatment. Over-medication	.26	Insurance of postal packets, letters, parcels etc.
.6	Resumption of work on Monday	.3	Insurance relating to the person of the insured. Life insurance. Life assurance. Insurance of the individual. Lump-sum assurance
.7	Misuse of state of labour market		
.07	Administrative arrangements. Organs of management		
	368.07 ≈ 35.07	30	Life insurance/assurance in general
08	Administrative personnel	31	Life insurance according to sum assured
	368.08 ≈ 35.08	312	Popular life insurance. Low-level insurance
092	Pseudo-insurance. Quasi-insurance	32	Life insurance according to person insured, e.g.
.095	Cash advances on policies		368.32-053.2 <i>Life insurance of children</i>
Principal divisions			
368.1	Insurance of material things in general. Insurance of objects. Property insurance. Goods insurance. Insurance against loss or damage	33	Life insurance according to kind of premium. Once-for-all payment. Regular payment. Profit-sharing. With-profits policies
.10	Fire insurance —614.84	.34	Life insurance subject or not subject to medical examination
.12	Various forms of insurance relating to buildings. Construction insurance	.35	Special conditions in life insurance. Deferred payment of premium etc.
.14	Insurance restricted to particular causes and consequences of fires, e.g. lightning, explosion, arson, damage from extinguishing	.36	Mortgage-linked life insurance. Other special forms of life insurance
.15	Mortgage insurance. Insurance of mortgage debt against fire-damage of mortgaged property	.37	Life insurance according to method of payment of sum assured
.16	Insurance against loss or damage from natural causes (other than fire). Insurance against landslips, rockfalls etc.	371	Lump-sum assurance
.162	Insurance against rain damage	.1	Lump-sum payment in event of death, in general
.163	Insurance against storm damage	.2	Lump-sum payment during lifetime of the insured. Endowment policies in general
.164	Insurance against damage to roofs	.211	Marriage endowment. Dowry assurance
.165 1	Insurance against hail damage (other than agricultural) —368.51	.212	Education endowment. Assurance of school, college expenses
.2	Insurance against frost damage	.23	Retirement assurance (lump-sum)
.166	Insurance against damage by water. Flood damage insurance	.3	Savings assurance policies
.167	Insurance against earthquakes, tremors, volcanic eruptions	.96	Purchase of real estate linked to life annuity. House purchase policy
.168	Insurance against biological damage, biodeterioration (rot, animal damage etc.)	372	Annuity policies. Pension policies. Life and endowment assurance
.18	Insurance against loss or damage by human action. Insurance of particular objects	.373	Assurance of services to be rendered after death. Assurance of funeral, burial, cremation costs
182	Insurance against theft, burglary	.381	Personal accident insurance
183	Insurance against robbery. Fidelity insurance.	.382	Private health insurance (sickness insurance)
.186	Insurance against fraud, forgery, malversation	.383	Private disability insurance
	Insurance against breakage of objects.	.384	Private unemployment insurance, redundancy insurance
187	Insurance of glass	.385	Private marriage, childbirth, maternity insurance
	Insurance against breakage and failure of machinery, equipment. Plant insurance, e.g.	.386	Insurance against surgery, operation, hospital treatment
	368.187:621.039 Insurance against faults in nuclear plant	.387	Celibacy, non-marriage insurance. Divorce insurance
19	Insurance of other material things	.388	Insurance of emigrants (against death in transit, expulsion from host country, unemployment)
	368.19:646 Insurance of clothing. Wardrobe insurance	.4	Social insurance. Social security generally
.2	Transport insurance	.41	—351.84; 368.3
	<i>Details by colon if not listed below, e.g.</i>	411	Social accident insurance
	368.2:656.073 Dispatch insurance.		Insured occupations
	Insurance of goods forwarding services		368.411:622 Mining as insured occupation
21	Insurance of land transport	.412	:656 Transport services as insured occupation
	368.21:629.113 Insurance of motor vehicles		Insured employees
.22	Insurance of inland waterway transport	.1	368.412:622 Miners as insured employees. Miners' insurance
	<i>Class information about both sea and inland waterway transport at 368.23</i>	.2	Employees in private service
.221	Hull insurance. Insurance of ship's fabric	.3	Employees in public service. Insurance of servicemen (in armed forces)
.222	Insurance of merchandise	.4	Apprentices, trainees. Other non-wage-earners
.223	Cargo insurance. Freight insurance	.5	Members of employer's family
.224	Defrayment of towage costs for wrecks etc.	.6	Native and foreign, immigrant, employees
.23	Insurance of sea transport. Marine insurance	.7	Excluded persons. Higher management.
231	Hull insurance. Insurance of ship's fabric	.8	Short-term employees etc.
232	Insurance of merchandise		Home workers. Out-workers
.234	Cargo insurance. Freight insurance		Independent workers. Self-employed.
.235	Insurance of valuables aboard ship		Insurance of craftsmen

368.412.92	Transferable insurance rights (at change of employment)	368.87	Insurance against indirect damage and losses. Insurance against trade losses, industrial stoppages, interruption of business, shut-downs. Loss-of-profits insurance
.413	Risks, hazards, forming object of insurance		Insurance against legal expenses
.1	Accidents at work, in the course of duties. Industrial accidents	.891	Insurance against fiscal levies. Tax insurance
.2	Accidents during work breaks, rest periods	.892	Insurance of profit share. Insurance of commission
.3	Accidents while travelling to and from workplace	.897	
.4	Accidents away from workplace		
.5	Non-industrial accidents at workplace (unconnected with occupation)	37	EDUCATION. TEACHING. TRAINING. LEISURE
.8	Risks wholly or partly excluded. Negligence, flouting of precautions etc.	Special auxiliary subdivisions	Fundamentals of education. Theory. Policy etc.
.414	Insurance benefits in case of death. Insurance of surviving dependants	37.01	Basic concepts. Educational situation —.001.4
.415	Insurance benefits in case of disablement, incapacity	.011	Methods of study of education. Pedagogic observation methods
.1	Temporary indemnity. Compensation for loss of earnings. Daily allowance	.012	General educational and teaching theory. Principles of pedagogic activity. Practical pedagogics
.2	Indemnity in case of temporary incapacity	.013	Comparative pedagogics
.3	Disability pensions, in case of permanent, long-term, incapacity	.74	Experimental pedagogics
.4	Payment of lump sum. Single compensation award	.75	Orthopedagogics. Therapeutic pedagogics
.6	Indemnity of various expenses: medical treatment, medicines, hospital fees, educational costs	.82	Andragogics. Theory of adult education
.42	Social insurance against occupational illness (industrial disease, sickness, accident)	.83	Educational policy. Educational work and public life
	368.42:616-002.5 Social insurance against work-related tuberculosis	.014	Opportunity and obligation. Right to education. Freedom to teach
.43	Social old-age insurance. Social disability insurance	.1	Compulsory education, schooling
.431	Social old-age insurance. Old age pensions	.14	Significance of school for education of the people
.432	Social disability insurance. Disability allowance	.2	Combating of illiteracy. Literacy campaigns
.44	Social unemployment insurance	.22	School reform
.45	Social marriage, childbirth, maternity insurance	.3	Educational policy. Planning of education system
.46	Social insurance of surviving dependants. Death benefits. Widows' pensions. Orphans' allowances	.5	Political bias. Political impartiality
.48	Insurance against reduced pay, half pay, laying off	.51	Religious aspects of educational policy. Denominational schools
.5	Agricultural insurance	.52	Social aspects of educational policy. Democratization. Equality of opportunity
.51	Insurance against weather risks, meteorological damage. Insurance against plant diseases, crop diseases, phytopathogens	.53	Economic aspects of educational policy
	368.51:632.116.3 Insurance against hail damage	.54	Planning of education system
	—368.165.1	.542	Financing of education system
52	Insurance of animals. Insurance of cattle etc. Livestock insurance	.543	Rationalization of education system
	368.52:636.7 Insurance of dogs	.544	Authority of state, government, over schools
	:638.1 Insurance of honeybees	.55	School inspection. School boards
54	Harvest insurance. Insurance of growing crops	.6	Parents' consultative bodies. School guardianships, trusts
55	Forestry insurance. Timber insurance	.64	Educational councils, commissions. Governing bodies
8	Insurance of wealth, assets. Insurance of imponderables. Insurance against financial losses. Insurance of excluded risks. Various other kinds of insurance	.65	Disciplines of educational theory. Special pedagogic sciences
81	Insurance against particular financial losses. Depreciation of investments etc.	015	Educational climatology
.811	Insurance of credit. Solvency insurance. Insurance of debt recovery	.1	Educational anthropology and biology. Genetics
.3	Insurance of guaranteed loans. Insurance of sureties. Bond, pledge, mortgage, bailment insurance	.2	Educational psychology. Educability —159.922.7
.812	Insurance against losses in currency exchange	.26	Educational sociology
.813	Insurance against rent losses. Insurance against default of tenant	.264	Educational economics. Economics of education
.814	Patent insurance	265	Aims and ideals of education
.815	Insurance of option moneys	.3	Basic forms, patterns, of education
.86	Insurance of civil liabilities. Third-party liability insurance	.4	Education at home. Private tutoring
	368.86 ≈ 347.5	.42	Education in school
		.43	Attitude of parents to school —37.064
		.44	Parents' meetings, evenings. Open days
			Parents' organizations. Parent-teacher associations (PTAs)
			Education in residential institutions, homes, boarding schools
			Organizational form of instruction
			Evening study. Evening school
			Remote education. Correspondence courses. Broadcast courses etc. —374.72
			Part-time and day-release study, e.g. 4 + 1, 3 + 2 days (UK) —377.35

37 018.46	Refresher courses. Revision courses	37 068	Extramural voluntary social work, individual or group, e.g. Voluntary Student Labour Service
48	Retraining. Re-schooling		
.5	Organizational form of schools, institutions		—331.578; 371.38
.51	Schools with little or no division. One-class schools, e.g. small village schools	.07	Management, administration, of educational institutions
.52	Permanent schools		37.07 ≈ 35.07
.53	Occasional schools. Mobile schools	08	Personnel. Staff. Teachers. The teaching profession
.54	Day-care schools. Nursery schools		37.08 ≈ 35.08, e.g.
55	Schools with overseas connections. Foreign schools. Schools based abroad (for children of diplomats, servicemen etc.)		37.082 Admission. Examinations.
.57	Practice, training schools		Selection. Appointment.
.58	Experimental schools		Promotion. Retirement
7	Education through practical experience	Principal divisions	
	Indirect functional education		
.8	Basic instruction, training	371	ORGANIZATION OF EDUCATIONAL AND TRAINING SYSTEM. SCHOOL ORGANIZATION
.02	General questions of didactics and method		Management. Teachers. Other staff
.022	Method and principles of particular theories and systems	.1	Direction of teaching in educational institutions. School management. Governors.
.025	Methods for development of mental, intellectual, imaginative capacity	.11	Head teacher, principal, master, mistress
	—37.037		Teaching staff. Other staff
.026	Didactic principles. Teaching principles	.12	Teaching qualifications, diplomas
.03	Intelligence training. Personality formation	.123	Kinds of teacher. Subject teachers
.031	General training	.124	371.124:51 Mathematics teachers
.032	Personality formation and development		:91 Geography teachers
.033	Education through nature study and observation	.125	Normally non-teaching staff. Psychologists.
.034	Moral education		Welfare staff
.035	Social education. Development of political interest, community spirit etc	.13	Training of teachers and educators. Teaching practice (TP)
.036	Artistic education. Development of creative abilities		—377.8
.037	Development of mental powers, concentration etc.	.14	Further development and training of teachers and educators. Study groups, tours
04	Education in relation to the educand, pupil. Guidance	.15	Status in the profession. Status in society.
	—371.212		Professional standards. Public image
.041	Self-education. Self-teaching Autodidacticism	.16	—174; 396
.042	Individual factors. Aptitude etc.		Community and cooperation in teachers and educators. Organized school and educational policy
.043	Group factors. Integration, segregation Coeducation	.2	Organization of instruction, teaching, educational arrangements
.044	Duration of education or training	21	Organization of instruction with reference to pupils, teachers, schools
	—371.25	.212	The pupil, student, schoolchild
.046	Stages. Levels of study		—37.04
.1	Particular grades	.1	Registration. Acceptance. Enrolment
.12	Lower grades. Lower school	.2	Selection. Aptitude, ability tests. Selective examination. Direction into various types of school. Admission quota
.14	Middle grades. Middle school		Ability and type of school. Grading.
.16	Upper grades. Upper school Sixth form	.3	Streaming
.2	To first examination level	51	Ordinary full-time pupils and students
.3	From first to second examination level	.52	Occasional or guest pupils and students.
.4	Above second examination level		Visitors to lectures etc
.047	Organizational differentiation according to vocation, future career	.7	Pupil's progress through school. Transferring
048	Guidance. Advice	72	Lack of progress in learning. Marking time.
.2	Pedagogic guidance		Staying in same class
3	Educational guidance	.74	Changing schools. Opportunity of transferring to other schools
.4	Vocational guidance. Careers advice in schools	.8	Discharge (on completion of studies). Leaving school. Withdrawal of pupil
	—331.548		—371.543.8
.05	Source of finance, support, of schools		Division of duties among teaching staff
	<i>Details by colon</i>	.213	Class teachers. Management of class or form
057	Public financing. Maintained schools. State schools. Local authority schools	.1	Teachers accompanying pupil groups through several classes or grades. Teacher mobility
.058	Private financing. Private, endowed schools. Fee-paying schools. 'Public schools' (UK)	.2	Teaching staff mainly concerned with education. Teachers. Mentors. Tutors
06	Social problems. Human contacts, relationships	3	Substitute teachers. Deputies. Locums.
	—379.8	.5	Supply teaching
.061	Social circumstances. Background	.8	Team teaching. Instruction by teacher group
.062	Relations between educational institutions and members. Pupil-school relations	.214	Teaching programmes. Syllabus. Timetable.
.064	Personal contacts, relationships.		Plan of lessons, periods
	Parent-teacher. Teacher-pupil. Between pupils		—372
	—37.018.26	.1	Type and compilation of programme. School syllabus. Prospectuses
.065	Student marriages. Problems of married students	.11	Type of programme. Subject allocations.
		.14	Outlines, skeleton programmes
			School syllabus

371.214.18	Obligatory, compulsory courses	371.333	Audiovisual methods
.19	Optional courses		—371.68
.27	Timetable. Plan of lessons, periods	.334	Discussion methods. Seminars
.41	Compulsory subjects. Optional/compulsory subjects. Optional subjects	.335	Visual instruction. Illustration. Observation
.43	Branching. Specialization	.336	Courses of instruction. Lecture courses.
.46	Core subject instruction		Holiday courses
.6	Overloading of syllabus	.38	Education through practical activity
.217	Social arrangements. Pupils' financial means	.381	Handicrafts. Workshops. Manual skill
.1	Travelling to school. Free transport. Fare concessions. Passes	.382	Play. Games
.2	School meals. School kitchens. School canteens	.383	Cultural, artistic events. Concerts, drama etc
.3	School-arranged holidays. Holiday centres, camps	.385	Independence, self-reliance, in practical activities. Initiative. Enterprise
.4	Pupils' financial means. Scholarships. Grants. Working students	.386	Independence, self-reliance, towards the outside world
.46	Incomes of pupils. Maintenance. Allowance. Pocket money	.387	Collecting (as educational activity)
.5	Loaned study materials, books etc		—379.824
.6	Free study materials, books etc	.388	Practical work. Laboratory work. Experiments
.7	Free clothing, uniforms etc	.398	Supplementary tuition. Coaching
.219	Use of schools for non-school purposes, e.g. adult education	.4	Educational systems
.22	School fees, charges. Tuition fees		<i>Details by A/Z using name of system:</i>
	—378.142		<i>Dalton, Froebel, Makarenko, Montessori, Pestalozzi etc., e.g.</i>
.23	Division of the school year. School terms, semesters	.5	371.4DALTON Dalton system
.233	Tours. Trips. Outings. Excursions. Study visits (home and abroad)	.51	School order and discipline
.235	School holidays, vacations. Temporary closing of school	.52	School regulations. Rules of conduct, behaviour. Obligations and rights of pupils
.239	School celebrations, commemorations. Founder's day etc.	.53	Presence and absence. Punctuality and lateness. Regularity of attendance. Truancy
.25	Duration of studies	.54	Incentives. Rewards. Prizes
	—37.044	.543	Punishments. Disciplinary measures
.26	Appraisal and supervision of pupils	.2	School punishments
.261	Marks. Points. Credits. Class, form order	.3	Reprimands. Rebukes. Warnings
.262	School reports	.4	Impositions. Punitive tasks
.263	School performance tests. Combined appraisal methods	.6	Detention. Keeping in
.264	Methods for psychological understanding of pupils	.8	Threat of expulsion. Consilium abund!
	—37.015.3		Permanent exclusion. Expulsion. Sending down
.27	Examination system. Qualifying system. Competition	.55	Corporal punishment. Caning etc
.274	Oral examinations. Viva voce tests	.57	Pupils responsible for maintenance of order.
.275	Written examinations. Test papers		Class captains. Monitors. Prefects. Head pupil, school captain
.276	Practical examinations	59	Student participation in school management.
.279.1	Examinees. Nervousness, anxiety. Exam fever	6	Pupil power
.2	Examiners. Examining boards	61	Site. School grounds. Buildings. Fittings.
.5	Examination conditions, requirements	.62	Teaching equipment
.6	Examination papers. Questions, problems		Site. School grounds. Property
.7	Marking. Assessment	.621	—711.57; 712.25; 911.374.7
.8	Examination certificates Degrees. Diplomas		School and college buildings, accommodation
	—378.2		—727
.3	Teaching methods and procedures. Forms of instruction and training	.622	Assembly area. Communal spaces. Reading, study rooms. Workrooms
.31	Forms of instruction in general	.623	Assembly area. Great hall. Aula
.311	Individual instruction. Group instruction		Classrooms. Lecture, seminar rooms
.1	Individual instruction	624	Specially equipped rooms. Teaching laboratories for physics, chemistry etc
.3	Work in communities Study groups	63	Rooms for teaching staff. Staffrooms. Staff common rooms
.4	Group work. Teamwork		Museum and library accommodation
.5	Class instruction	.64/.69	Arrangements for practical work.
.314	Collective instruction	.64	Laboratories for experiments. Observatories.
.6	Self-contained instruction beyond specialization. Project method Activity method	.65	Workshops. Drawing, art studios
.315	Instruction according to treatment of subject matter. Observation, demonstration, development	.66	Gymnasiums. Swimming baths
.7	Programmed instruction	.67	School and college furniture. Interior decoration. Aesthetic design of schools
.32	Lessons. Schoolwork		Educational, instructional equipment.
.321	Work of the teacher. Giving lessons	.671	Teaching and learning materials
.322	Work of the pupil, student	.672	Libraries. Book collections
.1	Homework	.673	—026; 027.8
.2	Classwork		Museums. Collections of objects
.33	Oral instruction		—069
.331	Lecturing. Lectures. Talks		Scientific instruments and apparatus
.332	Supervised debate. Class discussions		Traditional teaching materials (generally printed)
			—Table I(d)(07)
			Books. Schoolbooks. Textbooks. Periodicals.
			Newspapers
			Illustrations. Pictures. Charts. Reliefs
			Cartographic materials. Maps. Atlases.
			Globes

371.68	Audiovisual materials	373.5 (cont'd)	373.5.046.12 Lower secondary school grades
	—371.333		.16 Upper secondary school grades. Sixth form
683	Sound recordings and reproducers.		Organization of secondary schools
	Gramophone records. Tape recording		373.51 $\approx$ 371
.684	Radio	.51	Schools with limited preparation for further education. Secondary modern schools (UK)
.686	Cine film. Projection equipment		Schools leading to full matriculation.
.687	Television	.52	Grammar schools (UK)
.691	Realia. Objects. Specimens. Materials		Combined, all-purpose school systems.
.693	Models. Simulators	.54	All-age schools. Comprehensive schools
.694	Teaching machines		Various kinds of school and course leading to matriculation
.695	Educational toys, games	.55	Schools intermediate between secondary school and college or university. Junior colleges (USA)
7	Health and medical care of pupils, students		Special subject instruction, technical training etc., included in general education
	—613/614; 796/799	.57	—377
71	General state of health		EDUCATION AND TRAINING OUT OF SCHOOL. FURTHER EDUCATION
.72	Physical (bodily) health, hygiene, care	.58	Organization of self-education and group-education
	371.72:616.314 School dental care		374.1 $\approx$ 371
.78	Mental health, hygiene, care		Educational youth work
8	School and student life	.6	Organization of youth work
	371.8-055.1 Male pupils. Schoolboys		374.31 $\approx$ 371, e.g.
	Male students		374.311.24 Youth leaders, instructors
	—055.2 Female pupils. Schoolgirls.	374	Youth training work
	Female students		Youth welfare
82	Novitiate. New boys. New girls. Freshmen.		Adult education
	Life and treatment of new pupils or students	.1	Organization of adult education
.83	School and student associations, clubs, societies etc. (other than scholarly)		374.71 $\approx$ 371
.84	Associations, clubs, societies of scholarly, learned, scientific nature	.3	People's universities etc. Adult education centres. Extramural studies departments
.87	Residence. Living in hostels, lodgings, digs	.31	—37.018.43; 371.333; 371.68
.89	School and student customs, traditions		Adult education associations, unions etc. WEA (Workers' Education Association, UK)
.893	Festivals. Celebrations	.32	EDUCATION, TEACHING, TRAINING OF SPECIAL GROUPS OF PERSONS SPECIAL SCHOOLS
.896	Distinctive clothing. Uniforms. Gowns.	.33	—364
	Academic dress	.7	Organization of special schools
.899	Demonstrations, demos. Rallies. Strikes. Sit-ins	.71	376.1 $\approx$ 371, e.g.
		72	376.112.4 Special instructors, trainers (from 371.124)
372	CONTENT AND CURRICULUM IN PRE-SCHOOL AND ELEMENTARY EDUCATION. SUBJECTS, AT ANY LEVEL, IN ANY KIND OF SCHOOL	.73	Education of the physically, bodily handicapped
.3	Pre-school activities		Education of persons with limb defects, impediments. Disabled. Limbless. Crippled. Spastics
.32	Environment. Its significance in education	376	Education of the physically feeble
.36	Development of the faculties, the senses. Movement, coordination exercises		Education of the sick, invalids, hospitalized etc.
.4	Elementary education. First lessons		Education of persons with sensory and nervous handicaps
.41	Rudiments of reading. First reading lessons	.1	Education of the blind
.45	Rudiments of writing		Education of the deaf and deaf mutes
.46	Rudiments of language and speech. Voice Expression. Grammar		Education of the doubly and multiply handicapped. Deaf and blind. Blind deaf mutes
.47	Rudiments of number, arithmetic		Education of persons with sensory impediments, partial handicaps
.48	First orientation in space and time. Study of one's locality. Local history instruction	.2	Of the partially sighted, sight-defective, vision-defective
.8	Other subjects. Special subjects	.22	Of the partially deaf, hard of hearing
	372.8 $\approx$ 0/9, e.g.		Education of persons with speech impediments. Stutterers. Stammerers
	372.832 Political awareness Citizenship (from 32)	.23	Education of epileptics
	.853 Physics (from 53)	.24	Education of the mentally handicapped
	.874 Drawing. Design (from 74)	.3	Education of the retarded, backward, ESN (educationally subnormal)
373	KINDS OF SCHOOL PROVIDING GENERAL EDUCATION	.32	Education of the mentally defective
.1	School organization	.33	Education of congenital idiots
	373.1 $\approx$ 371	.34	Education of psychopaths
.2	Forms of pre-school education		
21	Organization of pre-school education	.35	
	373.21 $\approx$ 371, e.g.		
	373.211.24 Pre-school teachers.		
	Kindergarten teachers (from 371.124)	.352	
.22	Crèches. Day-nurseries	.353	
.23	Nursery schools	.36	
.24	Kindergartens		
.29	Transition to primary school. Pre-primary classes	.37	
.3	Primary school. Elementary level	.4	
.31	Organization of primary schools	.42	
	373.31 $\approx$ 371	.43	
.4	Transition to secondary school level (e.g. preparatory, 'prep' schools)	.44	
.5	Secondary school	.45	

376.5	Education of persons with adjustment problems. The maladjusted	378.096	Faculties. Departments. Schools in universities etc.
.54	Education of the precocious, the gifted, geniuses, prodigies	Principal divisions	
.56	Education of the environmentally maladjusted (owing to family, social background). Spoilt children. Neglected children	378.1	Organization of higher education
.58	Education of the problematic, near ineducable. Juvenile delinquents —343.815; 362.74	.11	Organs and management of universities etc.
.6	Education of particular social groups	.112	Governing bodies. Council. Senate
.62	Education of the socially privileged. Aristocracy etc.	.113	Directorate. Administrative officials. Chancellor. Vice Chancellor. Dean of faculty
.63	Education of the socially deprived. Unemployed. Destitute etc.	.115	Discipline, internal management of universities etc.
.64	Education of children without parental presence. Waifs. Orphans. Illegitimate children etc.	.12	378.115 ≈ 371.5
.66	Education of itinerant persons, of no fixed abode. Children of nomads, gipsies, bargees etc.	.124	Academic teaching and research staff
.68	Education of aliens, foreigners. Immigrants	.125	Academic teaching staff. Professors. Readers. Lecturers etc.
.7	Education of national minorities and special groups	.14	378.124:902 Professors etc. of archaeology
.72	Education of particular religious groups	.141	Normally non-teaching academic staff. Technical and research staff etc.
.74	Education of particular racial, ethnic, linguistic groups	.142	Organization of study and tuition
.76	Education of illiterates —37.014.22	.143	Matriculation, enrolment. Leaving, going down. Organization of studies
377	SPECIALIZED INSTRUCTION. VOCATIONAL, TECHNICAL, PROFESSIONAL TRAINING. VOCATIONAL COLLEGES, INSTITUTES. POLYTECHNICS	.145	College fees, charges. Tuition fees —371.22
	377.018.42 Evening technical studies.	.147	Division of the academic year. University terms, semesters, vacations: number, duration etc.
.1	Organization of vocational training	.16	378.143 ≈ 371.23
	377.1 ≈ 371, e.g.	.17	Planning of studies. Duration of studies
	377.112.4 Vocational teachers, trainers (from 371.124)	.18	Academic teaching methods. Forms of university instruction. Lectures. Seminars., Tutorials
.2	.121 274 Transfer opportunities in vocational schools (from 371.212.74)	.2	378.147 ≈ 371.3
.3	Training not leading to qualified occupations, skilled trades. Instruction in unskilled, semi-skilled work	.21	University site. Campus. College buildings, premises, equipment
.35	Education of skilled workers, businessmen etc. Technical, commercial institutes etc.	.22	378.16 ≈ 371.6
	In-school instruction combined with apprentice training. Vocational courses.	.24	Health and medical care of university students
	Day-release. Sandwich courses —37.018.44	.244	378.17 ≈ 371.7
.352	Public arrangements. College-based training	.245	Student life, customs etc.
.354	Business, firm's arrangements. Work-based training	.25	378.18 ≈ 371.8
.36	Vocational schools. Technical schools, colleges, e.g.	.3	Degrees. Qualifications. Diplomas. Qualifying examinations
	377.36:33 Commercial colleges. Schools of business studies	.31	Right of conferring academic degrees.
.4	Continuation training and retraining of skilled workers. Trade schools. Craft schools, e.g.	.32	Examination boards. Recognition of diplomas
44	377.4:62 Engineering craft schools	.33	Academic degrees. Bachelor, Master, Doctor. Licentiate, Associate, Fellow
5	Work-based continuation training and retraining	.34	Academic qualifications dependent on practical achievement, interview etc.
6	Higher vocational training for technician and supervisory grades (including courses leading to matriculation)	.342	Degrees based on examinations
	Professional training starting from matriculation but not leading to academic qualification, e.g.	.344	Degrees based on theses. Doctoral dissertations
8	377.6:02 Schools of librarianship	.36	Honorary degrees, e.g. Doctor honoris causa
	Teacher training colleges, schools, courses	.361	Endowments. Scholarships. Grants.
378	HIGHER EDUCATION. UNIVERSITIES. ACADEMIC STUDY	.362	Subsidies. Financing of academic studies
Special auxiliary subdivisions		.365	Academic and independent foundations, endowments, for academic teaching
378.094	Separate establishments. Colleges	.37	Grants, subsidies, for studies. Free places
		.4	Open competitions, contests
			Foundations, endowments, for academic research. Fellowships
			Student scholarships. Exhibitions. Bursaries. Travelling scholarships
			State scholarships
			Scholarships endowed by organizations, e.g. commercial, industrial
			Privately endowed scholarships
			Financial means of students. Student incomes, earnings —371.217.4
			Advance salary. Salaried students
			Loans for study
			Earnings from part-time jobs. Working students
			Social arrangements by the student body, for students. Student welfare, assistance.
			University sanatoriums
			Universities

378.4 (cont'd)	<i>Class here traditional universities with all or most of the usual faculties; also Open University (UK), formerly at 374.72 in English editions</i>	379.841	General organization and provision
	378.4(410)OU The Open University		379.841 ≈ 371
	(410.117) University of Oxford	.844	Outdoor urban recreation, e.g.
	(410.126) University of Sussex		379.844:712.25 In open spaces, town
	(443.611) Université de Paris à la Sorbonne	.845	parks and gardens,
			playing fields
.6	Specialist colleges with university status. Colleges of Advanced Technology. Technological Universities etc.	846	Outdoor rural recreation, in countryside etc., e.g.
	378.6 ≈ 0/9;	.847	379.845(23) In mountains
	<i>Further details by place auxiliaries, A/Z etc., e.g.</i>	.85	Seaside, waterside, aquatic recreation, at coasts, lakes, rivers etc.
	378.633 Colleges of economics, business, commerce (from 33)	.851	Recreation on ice, in snow
	378.633.9(436W) Hochschule für Welthandel (College of World Trade), Vienna (from 339)	.852	Leisure travel. Tourism. Sightseeing
	378.635.5(443.62St.Cyr) Military Academy of St Cyr (from 355)	.853	—338.48
		.854	General organization and provision
		.855	379.851 ≈ 371
		.857	Cross-country touring on foot or by animal.
		.858	Rambling. Riding. Trekking, e.g.
379.8	LEISURE	389	pony-trekking
	—371.235; 371.382; 613.7, 79		Cycling tours
Special auxiliary subdivisions		1	Motoring, bus and coach tours
	<i>Details by auxiliaries listed at 37, e.g.</i>	.14	Railway tours
	379.8.057 Public, state sponsorship	.15	Touring by ship. Boat trips. Sea cruises
	.058 Private, commercial sponsorship	.16	Touring by aircraft. Air tours. Plane trips
379.8.091	Background and origin of leisure, free time	.17	
.092	Influence and effects of leisure on the individual	2	
.093	Influence and effects of leisure on the community		
.095	Influence and effects of leisure on nature, environment		
Principal divisions			
379.81	General organization and provision for leisure	39	METROLOGY. WEIGHTS AND MEASURES
	379.81 ≈ 371		—531.7; 681.2
82	Leisure and recreation at home, indoors generally. Cultural interests, pursuits. Hobbies. Amusements	391	Weights and measures generally
821	General organization, provision		Adjustment, inspection, calibration of weights and measures
	379.821 ≈ 371		Systems of weights and measures. Imperial measures. Metric system
822	Cultural outings. Visits to museums, performances etc., e.g.		Units of measurement
	379.822:792 Visits to plays, drama		Numerical series. Geometric series. Series of sizes, formats
	Theatregoing	.1	Standard time. Time signals
.823	Passive appreciation: radio, television, reading etc.	.2	389.2(4-15) West European Time
824	Collecting (as hobby), e.g.	.3	(410) UK time. British Summer Time etc.
	379.824:656.835.91 Postage stamp collecting. Philately	.5	
	—371.387	.6	
825	Amateur creative pursuits, e.g.	.7	
	379.825:77 Amateur photography	.75	
826	Home handicraft hobbies. DIY (do-it-yourself)	8	
827	Gardening as hobby. Animals, pet-keeping as hobby	.91	
.828	Indoor amusements. Dancing. Table games etc.	.92	
.83	Leisure and recreation away from home, outdoors generally		
.831	General organization and provision	392	ETHNOLOGY. ETHNOGRAPHY. CUSTOMS. MANNERS. TRADITIONS. WAY OF LIFE. FOLKLORE
	379.831 ≈ 371		—572; 903; 904
.832	Staying at hotels, motels, hotels		COSTUME. CLOTHING. NATIONAL DRESS. FASHION ADORNMENT
.833	Staying at youth hostels. Youth-hostelling	.12	—613.4; 646; 687
.834	Staying at holiday homes: country houses, farms etc.	.14	391:63 Peasant costume
		.15	391"342.7" Sunday dress. Feast-day dress
.835	Staying at holiday camps, resorts	.17	Male dress. Men's costume
.836	Living in summer chalets, bungalows, huts		Female dress. Women's costume
.837	Living in camping sites, in tents, under canvas; in caravan sites	.18	Children's dress. Children's costume
.838	Living in camping trains or boats	.2	Hairstyles. Coiffure. Beard styles
.84	Outdoor, open-air recreation (according to physical environment)		Body care. Beauty care. Perfumery
			—687.5
			Adornment. Ornament. Jewellery
			—671
			Badges. Insignia, e.g.
			391.75:796 Sports badges
			Masks. Face masks, dominoes. Party masks
			Tattooing. Body painting
			—616-089.815; 616.5-003.6
			Decorative disfigurement, mutilation.
			Earrings. Nose rings. Piercing of lips etc.
			CUSTOMS, MANNERS, USAGE IN PRIVATE LIFE
			Birth customs
			Baptism
			—265.1
			Circumcision
			Attainment of manhood. Initiation ceremonies.
			Puberty rituals. Rites of passage
			Coming of age. Declaration of majority
			Killing of humans, e.g. of the aged, of prisoners. Human sacrifice. Ritual murder.
			Head-hunting. Werewolves
			—291.34; 393.9

392.27	Mutilation of sacrifices	394.4	Public ceremonial. Coronations. Investitures.
.3	Family life. Familial systems		Receptions. State visits. Commemorations.
	—173; 321.11; 347.62		Opening ceremonies. Inaugurations
.31	Kinship relations. Agnation. Cognation.	.5	Processions. Parades. Corsos. Street
	Patriarchy. Matriarchy		pageants. Lord Mayors' shows etc.
.35	Artificial relations. Blood-brotherhood	.6	Marchpasts
.37	Family hierarchy. Position of man, woman, children	.7	Annual fairs, markets. Kermesses (kermessen)
.4	Courtship. Wooing. Flirtation. Betrothal.	.84	Chivalric festivals. Jousting. Tournaments
	Engagement	.86	Duelling. Duels
.5	Marriage. Wedding. Nuptials	.9	Suicide. Hara-kiri
.51	Wedding customs		Public hospitality. International social relations
.52	Supposed sexual right of feudal lord. Jus primæ noctis. Droit du seigneur	.912	—338.48; 392.7
.53	Agamy. Celibacy. Bachelors. Spinsters		Organization of relations between different countries
.544	Polygamy. Polyandry (plurality of husbands). Polygyny (plurality of wives)		394.912(410:47) (UK) Society for Cultural Relations with the USSR
.545	Monogamy		(44:493) Société pour les relations franco-belges
.546	Marriage by capture		—351.88
.547	Marriage by purchase		Friendly relations without personal visits.
.6	Relations between the sexes	.92	Correspondence, letters. Pen-friends
	—176	.94	Behaviour towards particular persons.
.61	Love. Art of love		Newcomers, novices, initiates. Ragging.
.62	Concubinage, common-law marriage. Morganatic marriage		Ducking at 'crossing the line' (equator).
.63	Ritual celibacy. Abstinence for religious reasons		Catcalling. The unpopular, butts, pariahs. The popular. Homage, esteem
	—254		—371.82
.65	Prostitution		SOCIAL CEREMONIAL. ETIQUETTE. GOOD MANNERS. SOCIAL FORMS. RANK. TITLE
.7	Friendship. Hospitality. Emnity. Feuds. Vendettas	395	—177; 613.87
	—177; 394.9	.3	Social rank. Hierarchy
.8	Meals. Eating	.5	Salutation. Greeting. Leave-taking. Farewells.
	—394.1; 642	.6	Hand kissing. Marks of respect. Obeisances.
.81	Customs in preparation and consumption of food	.7	Bowing
.82	Fasts	.8	Conversational etiquette. Mode of address.
.83	Forbidden foods		Second-person pronoun: familiar, formal
.86	Customs in preparation and consumption of drinks		Epistolary etiquette. Polite formulas in correspondence, letters
.87	Geophagy. Swallowing of earth. Eating of other indigestible and peculiar substances		Expressions of shared emotion, sympathy.
.89	Cannibalism. Anthropophagy. Eating of human flesh		Felicitations. Congratulations. Condolences.
.91	Names. Personal, family, clan, tribal names. Nicknames. Soubriquets	396	Commiserations
	—801.313; 929	.1	FEMINISM. WOMEN AND SOCIETY. POSITION OF WOMEN
393	DEATH. TREATMENT OF CORPSES. FUNERALS. DEATH RITES	.2	—342.83
	—614.6; 718	.4	Emancipation of women. Female equality
.1	Interment. Burial	.5	Women and the law. Laws of married women's nationality, property
.2	Cremation. Incineration. Pyres	.6	Education of women
.3	Embalming. Mummification. Death masks	.9	Women and employment. Working women
.4	Lying in state. Death watch. Vigil. Wakes. Lyke-wakes		—331-05
.7	Mourning		Family status of women. Woman and the home
.9	Other funeral customs. Processions, cortèges. Dirges. Keening. Funeral feasts. Funeral offerings, oblations. Suttee. Immolation of widows	397	Women and politics
394	PUBLIC LIFE. SOCIAL LIFE. LIFE OF THE PEOPLE. EVERYDAY LIFE. COURT LIFE. STREET LIFE	398	PRIMITIVE PEOPLES. NOMADS. GIPSIES. PARTICULAR RACES, TRIBES, WITH REFERENCE TO THEIR CUSTOMS
1	Banquets. Public, ceremonial meals	.1	FOLKLORE IN THE STRICT SENSE
	—392.8; 642	.2	Popular traditions. Folk wisdom
2	National festivals. Folk festivals. Popular recreations	.3	Folktales. Fairy tales. Sagas. Legends.
25	Carnivals. Masquerades	.31	Anecdotes. Popular humour. Droll stories
26	Holidays. National holidays. Holidaying as social custom	.32	—82/89
	—331.817.5; 371.235; 379.8	.33	Popular beliefs and customs. Superstitions.
268	Special days and periods		Old wives' tales
.22	Mother's day. Mothering Sunday		Beliefs and customs concerning fire. Beltane fires. Solstitial fires. Pyromancy
.3	Days honouring the dead	.332	Beliefs and customs concerning particular places. Churchyards. Ruins. Springs. Forests
	Games. Rounds. Dances. Balls	1	Beliefs and customs concerning particular times and festivals
	—793.3; 796	.12	—264-045
		.16	High days and holidays
			Spring festivals
			Easter. Easter customs. Easter eggs
			Whitsun

398.332.2	Summer festivals. Summer solstice.	398 5	Folk literature. Traditional drama. Mumming.
	Midsummer day		Punch and Judy
3	Autumn. Harvest festivals. All Saints' Day (All		—82-292
	Hallows, Hallowmas). Halloween	6	Riddles. Conundrums. Rebuses. Traditional
.4	Winter festivals		jokes. Mottoes, devices, popular heraldry
.41	Advent. Christmastide. Yuletide. Winter		—82-193
	solstice	.7	Dream books. Popular interpretation of
.42	New Year's Eve (Feast of St Sylvester). New		dreams
	Year's Day		—291.32
.34	Beliefs and customs in the home, household	.8	Folksongs. Traditional songs. Shanties
.341	The house. Foundation stone. Topping out	81	Patriotic songs
	Housewarming	.82	Songs of nature, the seasons, the passing
.4	The supernatural		year
.41	Good and evil spirits. Demons. Gremlins	83	Songs of home, family, friendship, love
	Bugbears	.84	Songs of community, dance, rambling, sport.
	—291.216		Team songs
42	Ghosts. Spooks. Will-o-the-wisps etc.	85	Songs of status, role, occupation. Work
.43	The elemental. Earth spirits. Nature sprites.		songs
	Goblins, gnomes, fairies, elves	.86	Comic songs. Street ballads
.44	Dragons	.87	Songs with narrative or historical content.
.46	Giants. Ogres. Dwarfs		Folk ballads
.47	Witches. Witchcraft. Sorcery	.88	Religious folksongs. Spirituals
	—133.4; 291.33	.9	Proverbs. Popular maxims. Folk sayings.
			Taunts Gibes

CLASS 4 VACANT

for linguistics — 80

5 MATHEMATICS AND NATURAL SCIENCES

<i>Details by common auxiliaries, e.g.</i>		502.7 (cont'd)	502.7:061 Organizations. Wildlife protection associations
5-05 Persons concerned in mathematics and natural sciences - Table I(k)		.72	Wildlife reserves. Protected areas
		.74	Protection of animal life, fauna
50	GENERALITIES ABOUT THE PURE SCIENCES	.742	Special animal reserves. Sanctuaries, e.g. bird sanctuaries
	50(091) History of science	.743	Protection of individual animal species from extinction, extermination
	50-051 Practitioners of science. Scientists		<i>Denote species by :592/599</i>
501	GENERALITIES ABOUT THE EXACT SCIENCES. MATHEMATICAL SCIENCES IN THE BROAD SENSE, INCLUDING ASTRONOMY, MECHANICS, MATHEMATICAL PHYSICS	.75	Protection of plant life, vegetation, flora
		.752	Special plant reserves
		.753	Protection of individual plant species from extinction, extermination
		.8	<i>Denote species by :582</i>
502	NATURE. NATURE STUDY AND CONSERVATION. NATURE AND WILDLIFE PROTECTION		Conservation and protection of prehistoric human features. Ethnographic, ethnologic features. Folk customs. Archaeologic remains
Special auxiliary subdivisions		51	MATHEMATICS
502.05	Fieldwork. Observations and recordings in the wild	Special auxiliary subdivisions	
.08	Laboratory work, techniques. Laboratory investigations, experiments	51-3	Computation techniques. Calculations. Programs. Devices. Use of tables, slide rules, nomograms etc.
	502.08 $\approx$ 57.08		—519.66/.67
Principal divisions		-7	Mathematical studies and methods in other sciences. Scientific mathematics. Actuarial mathematics. Biometrics. Econometrics etc.
502.2	Nature study. Observation of nature. Natural history		—519.862
	—55/59	-8	Mathematical games and recreations
.3	Nature and society. Nature conservation and protection in general	Principal divisions	
	—574	510	FUNDAMENTAL AND GENERAL CONSIDERATIONS OF MATHEMATICS. FOUNDATIONS, LOGIC ETC.
.31	Interaction, interdependence of nature and society. Mutual benefits etc.		Foundations of mathematics
.33	Nature in relation to planning and development	2	General philosophical considerations. Critical aspects. Logical antinomies
.34	Social, administrative, legislative measures on nature conservation	.21	—1
.35	Conservation management in general		Set theory. Set theoretic approach. Theory of order types, of ordinal and cardinal numbers
.36	Scientific and technical conservation measures	.22	Formalism (mathematical aspects)
.37	Restoration, salvage, rescue measures	.23	Intuitionism (mathematical aspects)
.4	Nature reserves. Protected areas in general and their management	.24	Constructive approach. Constructive mathematics
.43	Establishment of reserves. Preparatory work	.25	Logical positivism
.45	Management of reserves. Reserve management	.26	Logical semantics. Semantic antinomies
.47	Reserves according to access. Closed, semi-closed, open reserves	.5	Algorithms. Computable functions
.48	Reserves with human occupants	.51	Theory of algorithms: general considerations
.5	The nature complex as a whole. Balance. Danger. Damage. Threat of destruction	.52	Algorithmic complexity
.52	Balance. Self-correcting imbalance	.53	Algorithmic problems. Theories of hierarchies
53	The unbalanced or disturbed nature complex as a whole	.54	Algorithmic set theory
55	Pollution, contamination danger. Protection against pollution	.56	General theory of calculi
56	Danger and damage other than pollution, from agriculture and industry	.57	Computable, recursive functions
57	Direct damage Depredation human, animal, plant Threat of depredation	.6	Mathematical logic
58	Damage to nature from natural causes. Natural disasters Earthquake, volcanic eruption, flood etc.	.62	Logical languages. Logico-object languages
6	Protection of inanimate nature, landscape	.63	Logical theories. Logico-object theories.
62	Geologic, geographic, landscape reserves. Protected areas		Classical logical systems. Propositional logic. Predicate logic
63	Conservation of landscape, scenery (as part of nature protection)	64	Non-classical, formal systems of logic. Modal logic. Multiple-value logics. Syllogistics.
64	Conservation and protection of particular geologic, geomorphologic features. Coasts, caves, rock formations etc.	65	Inductive logic. Probabilistic logic
.65	Conservation of exploitable natural resources. Soil conservation, reclamation, improvement. Water conservation. Mineral resources	.66	Logico-mathematical theories. Formal arithmetic. Formal number theory
.7	Protection of animate nature. Wildlife conservation and protection	.67	Inference search and decision problems in logical and logico-mathematical calculi
	<i>Details by colon, e.g.</i>	.8	Theory of models
		511	General mathematical systems
		.1	NUMBER THEORY
		.12	Elementary arithmetic
		.13	Integers and their manipulation. Addition.
		.132	Subtraction. Multiplication and division
		.134	Factors. Fractions. Ratios
		.135	Factors. Indices of power
			Vulgar fractions (numerator-denominator fractions)
			Decimal fractions. Binary fractions and analogues

- 502.63 Conservation of landscape, scenery (as part of nature protection)**
→ 712
Example(s) of combination:
502.63(210) Conservation of land formations. Coasts etc.
502.63(23) Conservation of mountains, hills, slopes
- 502.64 Conservation and protection of particular geological and geomorphological features**
Example(s) of combination:
502.64:551.21 Conservation of volcanic features
502.64:551.312.2 Conservation of marshes, moors
502.64:551.435.11 Conservation of gorges, canyons
- 502.7 Protection of animate nature. Wildlife conservation and protection**
Example(s) of combination:
502.7:061 Organizations. Wildlife protection associations
502.7(204) Aquatic wildlife (animals, plants)
502.7(23) Mountain, alpine wildlife
- 502.72 Wildlife reserves. Protected areas**
- 502.74 Protection of animal life, fauna**
- 502.742 Special animal reserves. Sanctuaries**
Example(s) of combination:
502.742:598.2 Bird sanctuaries
- 502.743 Protection of individual animal species from extinction, extermination**
Denote species by :592/599
- 502.75 Protection of plant life, vegetation, flora**
- 502.752 Special plant reserves**
- 502.753 Protection of individual plant species from extinction, extermination**
Denote species by :582
- 502.8 Conservation and protection of prehistoric human ethnographic and ethnological features**
Example(s) of combination:
502.8:39 Conservation of ethnographic features, folk customs
502.8:572 Conservation of anthropological and ethnological features, e.g. on reservations
502.8:903 Protection of antiquities, archaeological remains
- 504 Environmental science. Environmentology**
Class here matters concerning the environment and its components as they are affected by human activities. For nature (its study, conservation and protection) see 502. For general ecology (plants and animals together) see 574. Comprehensive studies concerning both 502 and 504 are to be classed primarily in 504. Denote particular measures adopted, etc. by colon combination (here at 504 or at appropriate subdivisions)

Example(s) of combination:
504:351.77 Administrative health measures
504:614 Public hygiene aspects
504:628 Public health engineering aspects

Special auxiliary subdivisions

- 504.03 Social and socioeconomic aspects of human impact on the environment. Social ecology**
→ 316.334.5, 502.3, 504.75, 711
- 504.05 Adverse effects of human activity on the environment**
- 504.052 Depletion or exhaustion of natural resources by overexploitation or misuse**
- 504.054 Effects of harmful materials. Pollution**
- 504.055 Effects of physical factors. Including: Effects of vibration, noise, heat**
- 504.056 Destruction**
Example(s) of combination:
504.056:355.4 By warfare
504.056:614.841 By fire
504.056:656 By traffic
- 504.058 Effects of man-modified natural phenomena. Including: Effects of surface runoff**
- 504.06 Protection of the environment. Management of environmental quality**
For environmental protection within a production plant see 628.5
- 504.062 Protection, rational use and renewal of natural resources**
→ 330.15
- 504.062.2 Rational use of natural resources**
- 504.062.4 Renewal, replenishment, restoration of natural resources**
- 504.064 Control of environmental quality. Control of pollution**
- 504.064.2 Measures in conservation science. Environmental state analysis**
Example(s) of combination:
504.064.2:550.3 Geophysical studies in conservation
504.064.2.001.18 Environmental state forecasting
- 504.064.3 Environmental quality control systems and devices. Including: Monitoring systems**
Example(s) of combination:
504.064.3:528.8 Remote sensing techniques
504.064.3:550.4 Geochemical monitoring
504.064.3:574 Ecological monitoring
- 504.064.4 Measures in conservation engineering. Including: Wasteless and low-waste technology**
→ 628.47, 658.567
Example(s) of combination:
504.064.4:658.567.1 Conservation by use of waste products
504.064.4:658.567.3 Conservation by recycling

Principal divisions

- 504.3 Atmospheric environment**
For meteorology details see 551.5
Example(s) of combination:
504.3.054 Atmospheric pollution. Air pollution

504.31	Atmospheric structure	504.53	Soil <i>For soil science details see 631.4</i>
504.32	Atmospheric radiation. Atmospheric temperature		<i>Example(s) of combination:</i> 504.53.052 Soil impoverishment 504.53.062.4 Restoration of soil fertility
504.35	Wind. Turbulence	504.54	Landscape. Landscape ecology → 502.63, 551.4, 711, 712 <i>Example(s) of combination:</i> 504.54.056 Destruction of the landscape 504.54.062.4 Landscape restoration
504.37	Aqueous vapour. Precipitation		
504.38	Climate	504.55	Earth's interior → 552, 553 <i>Example(s) of combination:</i> 504.55.052 Depletion of deposits 504.55.054:622 Pollution by mining
504.4	Hydrospheric environment → 574.6 <i>For hydrology details see 556</i> <i>Example(s) of combination:</i> 504.4.054 Hydrospheric pollution. Water pollution 504.4.062.2 Rational use of water resources	504.7	Biospheric environment → 574
504.42	Ocean and sea environment. Including: Sea floor. Sea water <i>For oceanography details see 551.46</i>	504.72	Microbial kingdom → 579
504.43	Groundwater environment. Including: Aquifers. Springs	504.73	Vegetation. Plant kingdom → 582 <i>Example(s) of combination:</i> 504.73.05 Harmful effects: degeneration of taxons and phytocoenoses
504.45	Freshwater environment. Inland surface waters <i>Example(s) of combination:</i> 504.45.058 Eutrophication problems	504.74	Animal kingdom → 592/599 <i>Example(s) of combination:</i> 504.74.052 Depletion, extinction of species
504.453	Fluvial environment. Including: Rivers. Streams	504.75	Human ecology and environment → 364.25, 502.313, 504.03 <i>Example(s) of combination:</i> 504.75.05 Adverse effects on human beings of human impact on the environment 504.75.05:504.3.054 Effects on human beings of air pollution 504.75.05:64 Domestic environmental effects 504.75.06 Protection of human beings from harmful environmental effects
504.454	Fluvio-marine environment. Including: River mouths. Estuaries		
504.455	Lakes. Reservoirs. Ponds		
504.456	Swamps. Marshes		
504.47	Glacial environment. Including: Ice. Snow <i>For glaciology details see 551.32</i>		
504.5	Lithospheric environment		

51 Mathematics

Special auxiliary subdivisions	51-7	Mathematical studies and methods in other fields of knowledge. Including: Scientific mathematics. Actuarial mathematics → 519.862 <i>Denote the field by ...</i>
51-3	Computation techniques. Including: Calculations. Programs. Devices	
51-32	Calculation without aids	
51-33	Use of tables → 519.66	51-8
51-35	Use of mechanical, graphical and other devices. Including: Slide rules. Nomograms → 519.67, 681.332.2	Mathematical games and recreations
51-37	Use of calculators, computers in mathematics	Principal divisions
		510
		510.2
		Fundamental and general considerations of mathematics
		Foundations of mathematics

511.136	Fractional parts. Percentages	512.532	Generating sets, relations and identities of semigroups
.137	Ratios. Proportions		Equivalences and complexes in semigroups.
.138	Continued fractions	533	Homomorphisms
.14	Roots and their extraction. Irrationals.		One-side regular equivalences
	Imaginaries. Incommensurables	.1	Homomorphisms of semigroups.
.142	Square roots	.2	Congruences. Endomorphisms.
.143	Higher roots. Cube roots etc.		Automorphisms. Correspondences. Products.
.145	Surds. Irrational roots. Rationalization		Bands
.147	Complex numbers. Imaginaries	4	Special elements and complexes in semigroups
.16	Operations with specific measures and units, e.g. money, lengths, weights, time		Ideals of semigroups. Ideal equivalences.
2	Elementary number theory	.5	Homogroups
.21	Elementary properties and methods	.7	Subsemigroups
.212	Integers: multiplicative structure (GCD, greatest common divisor. LCM, lowest common multiple etc.). Congruences. Power residues	.8	Lattices of subsemigroups, ideals and congruences of semigroups
		.534	Semigroups of transformations
.213	Elementary prime number theory	1	Semigroups of multivalued transformations (binary relations)
.214	Number theoretic functions. Inversion formulae. Phi-functions etc.	.2	Semigroups of single-value transformations
.215	Algorithms and expansions. Digital properties	.3	Representation of semigroups by transformations
.216	Number sequences, e.g. Farey. Recurrence sequences	.4	Restrictive semigroups of mappings
.217	Special numbers and polynomials, e.g. Bernoulli	.5	Semigroups of transformations of sets equipped with structures
.218	Partitions: elementary methods	7	Matrix semigroups. Linear semigroups
.3	Analytical, additive and other number-theory problems. Diophantine approximations	.535	Inverse semigroups (generalized groups). Complexes. Homomorphisms. Regular semigroups. Semiheaps and generalized heaps
.33	Analytical and multiplicative number theory		Semigroups with additional structures
	Asymptotics. Sieves etc.	.536	Semigroups with operators. Omega semigroups
.333	Distribution of primes and divisors in number fields	.1	Connection with theory of rings. Multiplicative semigroups of rings
334	Modular and quadratic forms	.2	Semigroups with involution
.34	Additive number theory. Forms and form systems concerning ring of rational integers —512.647	.4	Quasi-ordered and ordered semigroups.
		.5	Residual semigroups
341	Linear forms. Representation of numbers by linear forms	.7	Topological semigroups. Compact and connected semigroups
.342	Quadratic forms		Various generalizations of associativity
.343	Forms of higher degree. Fermat's last theorem	538	Groups. Group theory
.345	Additive problems with prime numbers	.54	
.36	Diophantine approximations	Special auxiliary subdivision	
.364	Approximations of algebraic and transcendental numbers —517.524	512.54 05	Algorithmic problems in group theory The word problem
		Principal divisions	
.37	Metric and probabilistic theory of numbers	512.541	Abelian groups
.5	Diophantine equations	.1	Purity and its generalizations. Neatness.
.51	Algebraic Diophantine equations —512.75	.2	Algebraically compact groups
		.3	High subgroups. E-groups
.53	Non-algebraic Diophantine equations.	.4	Direct and subdirect sums. Restricted groups
	Exponential equations	.5	Extensions of Abelian groups. Splitting of mixed Abelian groups
56	Diophantine inequalities		Mappings of a group into itself and into other groups. Automorphisms. Endomorphisms.
.6	Algebraic number fields —512.62		Characteristic subgroups. Homomorphic images of a group. Equivalent Abelian groups. Quasi-isomorphisms
.61	General theory of algebraic number fields and complex unities	.6	Primary Abelian groups
62	Special classes of algebraic number fields and complex numbers	.7	Torsion-free Abelian groups
.66	Function fields of prime characteristic	.8	Systems of generators. Factorization
68	Analytical and local methods in algebraic number theory	.542	Finite groups
.9	Geometry of numbers —514.174	1	Generators and defining relations
.92	Geometrical classes of numbers: triangular, polygonal etc.	2	Automorphisms of finite groups
.95	Distribution of lattice points in domains	.3	Finite p-groups
		.4	Finite solvable groups
		.5	Finite simple groups. Subgroups of non-solvable groups
		.6	Arithmetic structure and normal structure of finite groups. Extensions of finite groups.
512	ALGEBRA		Normal series in finite groups. Sylow theorems. Factorizations. Normal complements
.1	Elementary algebra. Operations. Formulae	.7	Permutation groups
.12	Addition. Subtraction. Multiplication. Division. Progressions	.543	Relations between elements of groups
.13	Identities and inequalities	.1	Systems of generators
.14	Binomial formula. Sum of powers of first n numbers etc. Powers of polynomials	.2	Varieties of groups. Identity relations
.5	General algebra	.5	Operations on groups. Free, direct, regular, wreath products
.53	Semigroups		
.531	Semigroups with finiteness conditions		

512.543.7	Equations in groups. Embedding theorems in group theory. Adjunction problem. Complete groups and completions	512.66 .662	Homological algebra Chain complexes. Filtrations. Exact couples. Spectral sequences
.544	Relations between subgroups. Generalized solvable groups and finiteness conditions	.664	Derived functors. Deformations of algebraic structures
.2	Lattices of subgroups. Splitting of groups	.667	Algebraic analogues of various constructions from topology and algebraic geometry
.3	Normal series and systems. Radicals in groups	.7	Algebraic geometry. Commutative rings and algebras
.4	Characteristic subgroups, automorphisms, endomorphisms	.71	Commutative rings and algebras. Local theory. Foundations of algebraic geometry
.5	Locally finite groups	.72	Structure and variations of algebraic varieties. Fibre bundles. Vector bundles. Fibrations
.7	Approximations of groups	.73	Cohomology theory of algebraic varieties and schemes
.545	Ordered groups	.732	Algebraic sheaves: cohomology, coefficients. Riemann-Roch theorem
.546	Topological groups	.734	Cycles: intersection theory, equivalence
.1	General theory of topological groups	.736	Serre cohomology. K-theory
.2	Abelian topological groups	.737	Grothendieck cohomology and topology
.3	Locally compact groups	.74	Algebraic groups. Abelian varieties
.4	Representations of topological groups	.741	Formal groups
.6	Relations between subgroups in topological groups. Finiteness and related conditions	.742	Abelian varieties and schemes. Elliptic curves
.8	Generalizations of topological groups	.743	Linear algebraic groups
.547	Linear representations of abstract groups. Group characters	.745	Algebraic groups of transformations
.548	Generalizations of groups. Groupoids	.747	Pro-algebraic groups and group schemes
.55	Rings and modules	.75	Arithmetic problems of algebraic varieties. Rationality questions. Zeta-functions
.552	Associative rings and algebras	.76	Birational geometry. Mappings etc.
.1	Structures of rings	.761	Singularities. Singular points of algebraic varieties
.2	Rings with chain conditions	.763	Linear systems and rational mappings
.3	Rings with conditions on ideals or sub-rings (e.g. skew fields)	.765	Modifications and the problem of minimal models
.4	Defining and identity relations in rings. Operations on rings	.77	Algebraic curves. Algebraic surfaces.
.5	Embeddings of rings	.772	Three-dimensional algebraic varieties
.6	Extensions of rings	.774	Algebraic curves
.7	Semigroup and group rings	.776	Algebraic surfaces
.553	Modules. Homological classification of rings	.78	Three-dimensional algebraic varieties
.554	Non-associative rings and algebras	.81	Analytic spaces on arbitrary complete normed fields
.3	Lie rings	.812	—515.17
.5	Alternative rings and closely related rings	.813	Lie groups
.7	Jordan rings and algebras	.814	General Lie group theory. Properties, structure, generalizations. Lie groups and Lie algebras
.555	Ordered rings and modules	.815	Special classes of Lie groups. Compact, semisimple, solvable, nilpotent Lie groups
.556	General theory of topological rings, modules, fields	.816	Continuous subgroups of Lie groups. Cartan subgroups
.558	Generalizations of rings	.817	Linear representations of Lie groups
.56	Lattices, including Boolean rings and algebras	.818	Lie transformation groups. Homogeneous spaces
.562	Partially ordered sets		Discrete subgroups. Discrete transformation groups
.563	Boolean rings and algebras		Theory of continuous pseudogroups (infinite Lie groups). Cartan pseudogroups. Cartan subgroups in infinite Lie groups
.565	Types of lattice		
.567	Representations of lattices		
.568	Generalizations of lattices		
.57	Universal algebras. Free algebras		
.58	Categories. Category theory		
.581	General considerations of category theory		
.582	Functors		
.583	Representations of categories		
.585	Abelian categories		
.587	General theory of species of structures (according to Ehresmann)		
.6	Special branches of algebra		
.62	Fields. Polynomials		
.622	Polynomials, including binomials and prime factors		
.623	General field theory		
.2	Extensions of fields. Derivations in fields		
.3	General Galois theory		
.4	Valuations of fields		
.5	Ordered fields		
.624	Finite fields. Perfect difference sets		
.625	Local fields		
.626	Fields of algebraic numbers and algebraic functions		
.627	Class field theory		
.628	Differential algebra. Difference algebra		
.64	Linear and multilinear algebra. Matrix theory		
.642	Vector spaces. Vector space theory		
.643	Matrices and linear mappings. Matrix theory. Determinants. Eigenvalues		
.644	Systems of linear equations and inequalities		
.647	Multilinear algebra. Forms		

514 123	Analytic geometry in three-dimensional Euclidean space. Analytic geometry of planes, of surfaces of second order etc.	514 752.6	Theory of families of curves and surfaces
124	Analytic geometry in multidimensional Euclidean space. Analytic geometry of linear varieties, of algebraic varieties	7	Differential geometry of vector fields
.125	Pseudo-Euclidean spaces	753	Differential geometry in non-Euclidean spaces
.126	Galilean spaces	.2	With nondegenerate absolute
.127	Semi-Euclidean spaces	.3	With degenerate absolute
.128	Flag spaces	754	Affine differential geometry
13	Non-Euclidean metric geometries	.755	Projective differential geometry
	Lobachevsky geometry. Other hyperbolic geometries. Elliptic geometries	.756	Differential geometry in spaces with other fundamental groups
14	Affine geometry. Projective geometry	.2	Differential geometry in conformal and pseudoconformal spaces
.142	Affine geometry. Synthetic and analytic geometry in affine space	514.756.2 $\approx$ 514.752, e.g.	514.756.24 Conformal theory of surfaces (from 514.752.4)
144	Projective geometry	4	Differential geometry in symplectic spaces
.1	Synthetic geometry in projective space	.7	514.756.4 $\approx$ 514.752
.2	Analytic geometry in projective space	757	Differential geometry in biaxial, biaffine spaces and their generalizations
.146	Algebraic theory of affine and projective geometries. Nondesarguesian geometries	.2	514.756 7 $\approx$ 514.752
.15	Geometry in spaces with other fundamental groups	3	Differential geometry of pointwise mappings
.152	Conformal geometry and its analogues. Laguerre geometry. Lie geometry	4	Pointwise mappings of affine and projective spaces
.154	Symplectic geometry	6	Pointwise mappings of Euclidean, pseudo-Euclidean, conformal and other spaces with a metric
.157	Biaxial geometry and its generalizations. Biplanar geometry	.758	Mapping of submanifolds under the pointwise mappings of spaces with fundamental group
.16	Geometries over algebras	.76	Dual mappings
.161	Affine and projective spaces over algebras	.762	Kinematic geometry. Affine kinematics
.162	Quadratic Euclidean and non-Euclidean spaces	.2	Geometry of differentiable manifolds and of their submanifolds
.163	Hermitian Euclidean and non-Euclidean spaces	3	Geometry of fibre spaces
.164	Symplectic spaces	5	General questions of fibre space geometry
.17	Convex sets. Geometric figure arrangements. Geometric inequalities	7	Spaces and fields of geometric objects in fibre spaces. Geometry of vector bundles. Geometry of tensor bundles
.172	Convex sets. Convex curves. Convex surfaces etc.	763	Connections in fibre spaces
.174	Arrangements of geometric figures. Packings	.2	Holonomy groups of fibre spaces
.177	Coverings. Partitions. Grids	.4	Infinitesimal structures and fields of geometric objects on differentiable manifolds
.18	Geometric inequalities. Extremal problems	.5	Differential geometry of vector and tensor fields on manifolds
.181	Descriptive geometry	.6	G-structures on differentiable manifolds
.2	Theoretical questions of descriptive geometry	.62	Manifolds with complex or almost-complex structure. Hermitian manifolds. Kahler manifolds
.4	Descriptive geometry of curves and surfaces	.63	Infinitesimal structures and fields of geometric objects of higher order. Tangent bundles. Jets. Tensors. Tensor fields etc.
.6	Affine and projective foundations of methods of descriptive geometry	.64	Finsler geometry and its generalizations
.8	Theoretical questions of parallel and central axonometry	.65	Finsler geometry
.182	Theory of accuracy of graphic constructions	.7	Geometry of the integral. Geometry of the calculus of variations
3	Practical methods of descriptive geometry. Diagram transformations	.74	Geometry of the spaces of linear elements
	Perspective constructions and the theory of shadows	.742.2	Geometry of spaces with other generating elements
.185	Generalizations of descriptive geometry	.4	Geometry of webs
.7	Differential geometry. Algebraic and analytic methods in geometry	.743.2	Geometry of differential equations
.74	Algebraic and analytic methods in geometry	.4	Classical spaces with connections and their generalizations
.742.2	Vector algebra. Screw calculus	.764	Riemannian and pseudo-Riemannian spaces
.743.2	Vector analysis (vector field theory)	.2	General theory of Riemannian and pseudo-Riemannian spaces
.744	Tensor algebra	.21	Special types of Riemannian space. Reducible, recurrent, symmetric Riemannian and pseudo-Riemannian spaces. Einstein spaces
.745	Tensor analysis	.22	Mappings of Riemannian and pseudo-Riemannian spaces
.8	Spinors. Spinor algebra. Spinor analysis	.25	Submanifolds of Riemannian and pseudo-Riemannian spaces. Hypersurfaces
.747	Calculus of exterior forms. Grassman algebra	.27	Spaces with an affine connection
.748	Theory of compatibility of systems of differential equations	.3	514.764.3 $\approx$ 514.764.2, e.g.
	Geometric objects. Representations of Lie groups. Lie differentiation		514.764.32 Special types of space with an affine connection. Weyl spaces (from 514.764.22)
.748	Differential geometric methods in the study of immersed manifolds	.4	Spaces with a projective connection
.2	Moving frame of a manifold	.5	514.764.4 $\approx$ 514.764.2
.4	Geometric objects on immersed manifolds		Spaces with a conformal connection
.75	Differential geometry in spaces with fundamental groups		
.752	Differential geometry in Euclidean and pseudo-Euclidean spaces		
.2	Theory of curves		
.3	Theory of surface strips		
.4	Theory of surfaces		
.5	Theory of families of straight lines and planes		

514.764.6	Spaces with a symplectic connection	515.142	General theorems on fundamental categories and functors
.7	Spaces with a Euclidean, pseudo-Euclidean or generalized Euclidean connection	.2	General topological categories. Categories whose objects are topological spaces subject to various general restrictions, and whose morphisms are either continuous mappings or homotopy classes of such mappings. Other closely related categories
.765	Geometry of homogeneous spaces. Lie group geometry	.21	Homology and cohomology groups of spaces: definitions, basic properties. Axiomatic questions
.1	Invariant infinitesimal structures in homogeneous spaces. Holonomy groups	.22	Study of topological spaces and continuous mappings by homological methods. Homological dimension theory. Homological theory of fixed points and coincidence points
.2	Vector and tensor fields in homogeneous spaces	.23	Homology and cohomology with non-Abelian coefficients
.7	Integral geometry	.25	Homotopy and cohomotopy groups: definitions, basic properties. Axioms etc.
.77	Differential geometry of submanifolds in the large and of metrizable manifolds	.27	Functors with values in general topological categories (operations on topological spaces)
.772	Differential geometry of submanifolds in the large. Nonregular submanifolds	.3	Polyhedral categories. Categories whose objects are polyhedra
.2	Geometry in the large of curves and surfaces in Euclidean space	.32	CW-complexes
.3	Images in the large	.33	Simplicial complexes (triangulations). Simplicial schemes
.774	Geometry of metrizable manifolds. Minkowsky geometry. Hilbert geometry. Geometry of geodesics	.4	Categories approximating to general topological and polyhedral categories
.8	Geometric study of objects of mechanics and physics	.42	Categories whose morphisms are stable mappings or homotopy classes of such mappings. Categories of spectra. Bordism and cobordism
.82	Geometric questions and methods in relativity theory. Geometric questions of cosmology, of unified field theory etc.	.44	Categories of semi-exact functors
.83	Geometric study of fields of physical objects	.5	Simplicial sets. Simplicial spectra
.84	Geometric methods in quantum mechanics and in the theory of elementary particles	.143	Homotopy theory: basic problems
.85	Geometric methods in general mechanics	.2	Decompositions of spaces and mappings. Moore-Postnikov systems. Postnikov invariants. Lyusternik-Sierelmann categories
.86	Geometric methods in mechanics of continuous media, e.g. in theory of shells	.3	Theory of obstructions. General classification and extension theorems for continuous mappings and cross-sections
.87	Geometric questions and methods in crystallography	.5	Cohomology operations
.88	Geometric questions and methods in optics	.145	Spaces with various additional general properties or derived by various general constructions
515.1	TOPOLOGY	.2	Fibre spaces. Fibre bundles. Spectral sequences. Vector bundles etc.
.12	General topology	.3	Spaces with operators
.122	Topological spaces	.5	Spaces with multiplication (H-spaces). Loop spaces
.2	Axiomatic theory of topological spaces. Compact spaces. Paracompact spaces. k-spaces	.6	Spaces with comultiplication and suspensions
.3	Non-axiomatic theory of topological spaces. Continuous images of given spaces. Dyadic compacta	.8	Spaces with only a finite number of non-homotopy groups. Eilenberg-MacLane spaces
.4	Topological properties of spaces with supplementary structure and topological transformation groups	.146	Concrete spaces. Computation of homotopy invariants
.5	Construction of topological spaces.	.2	Computation of homotopy groups
.8	Operations on topological spaces	.3	Computation of homology and cohomology groups
123	Generalizations of topological spaces	.5	Computation of K-functors, of J-functors
.2	Uniform spaces. Proximity spaces	.6	Computation of bordism and cobordism groups
.4	Axioms of uniform and proximity spaces	.148	Isotopy theory
.5	Uniform spaces. Uniformly continuous mappings	.16	Topology of manifolds
.7	Proximity spaces	.162	Low-dimensional manifold topology. Topological surfaces. Topological 3-manifolds, 4-manifolds. Knots. Links. Braids
124	Comparison of topologies, uniformities and proximities	.163	Topological manifolds. Microbundles. Imbeddings. Immersions
.2	Metric spaces	.164	Topology of smooth and piecewise linear manifolds
.3	Axioms and generalizations of metric spaces	.2	Classification of smooth and piecewise linear manifolds
.4	Topological properties of metric spaces	.3	Fibrations of smooth manifolds. Fibre bundles with smooth manifolds as bases
.5	Metric properties of metric spaces	.6	Smooth and piecewise linear imbeddings and immersions of manifolds
.6	Classes of metric spaces defined by topological properties	.8	Groups acting on smooth and piecewise linear manifolds
.6	Classes of metric spaces defined by extrinsic conditions (imposed on possible imbedding spaces)		
.125	Topology of Euclidean spaces		
126	Continuous mappings		
.2	Special types of continuous mapping. Open, closed mappings. Perfect mappings		
.4	Monotone mappings		
.8	Fixed points and coincidences		
.127	Generalizations of continuous mappings		
.1	Dimension. Other numerical topological invariants		
.2	Dimension theory		
.128	Dimension-type invariants		
.14	Descriptive set theory of topological spaces		
	Algebraic topology		

515.165	Topology of smooth manifolds provided with additional structure. Kähler manifolds.	517.518.3	Systems of functions. Series in systems of functions
	Riemann manifolds	.4	Trigonometric series
.168	Differential and integral operators on manifolds	.42	Representation of a function by trigonometric series
17	Analytic spaces	.43	Uniqueness problem
171	General theory of complex and real analytic spaces. Riemann-Roch theorem	.45	Fourier series
		.47	Multiple trigonometric series
.172	Analytic mappings and constructions of complex spaces	.5	Theory of the Fourier integral
173	Complex spaces of one, two and three dimensions	.6	Almost-periodic functions. Almost-periodicity
174	Classes of complex spaces defined by global conditions. Holomorphically convex and complete spaces	8	Approximation of functions by polynomials and their generalizations
		.82	Approximation by algebraic polynomials
175	Generalizations of analytic spaces. Banach analytic spaces. Partially analytic spaces	.826	Chebyshev-type problems
.176	Holomorphic fibre spaces	.83	Approximation by trigonometric polynomial and entire functions of exponential type
.177	Complex spaces with a group of automorphisms	.84	Approximation by rational functions
		.85	Interpolation
.178	Automorphic functions. Elliptic, modular, Abelian functions	86	Extremal properties of polynomials and their generalizations
179	Deformation of structures. Pseudogroups	.87	Theory of quadratures and cubatures
		.88	Theory of moments
517	ANALYSIS	.52	Series and sequences
1	Introduction to analysis	.521	Numerical series and sequences. Functional series and sequences. Convergence
13	Theory of real numbers		Differentiation. Summability Tauberian theorems Summation
15	Asymptotic formulae and expressions	.523	Infinite products
.16	Analytical means. Inequalities	.524	Continued fractions
.17	Basic properties of functions. Continuity Monotonicity etc.	.53	Functions of a complex variable
		.535	Rational functions in the complex domain
.18	Study of concrete functions	.537	Sequence and series of analytic functions
2	Differential calculus. Differentiation	.3	Power series. Overconvergence
22	Differentials and derivatives	.6	Dirichlet series
23	Derivatives of arbitrary order	.538	Systems of functions. Closedness of a system of functions. Series of polynomials.
.26	Taylor's formula in the real domain		Interpolation. Iteration
.27	Study of variation and functions. Maxima. Minima	.54	Conformal mapping and geometric problems in the theory of functions of a complex variable. Analytic functions and their generalizations
28	Other analytical applications of differential calculus		Mappings of special domains
.3	Integral calculus. Integration	.542	Boundary properties of analytic functions.
31	Single indefinite integrals. General method of integration	.544	Boundary value problems
37	Multiple integrals	.4	Bounded functions
.38	Simple or multiple definite integrals	.5	Harmonic measure and capacity
.387	Differentiation and integration under the integral sign	.7	Boundary properties of holomorphic functions. Cluster values. Cluster sets.
.4	Functional determinants. Integral transforms. Operational calculus		Cauchy-type integral
.41	Functional determinants	.8	Boundary value problems of the theory of analytic functions
.43	Operators of vector calculus (symbolism of Hamilton)	.545	Riemannian surfaces of functions of a complex variable. Uniformization
.44	Integral transforms. Operational calculus. Laplace transforms. Fourier integral Fourier transforms. Convolutions	.546	Univalent and multivalent functions
5	Theory of functions	.547	Classes and spaces of analytic functions
51	Functions of a real variable. Real functions	.2	Entire and meromorphic functions Picard theorem. Value distribution theory
.517	Descriptive theory of functions	.3	Analytic functions in a finite circle and other domains
518	Metric theory of functions	5	Special classes of analytic functions.
1	Measure. Integration. Differentiation		Algebraic and algebroid functions.
11	Measure. Capacity. Lebesgue measure. Borel measure	.7	Automorphic functions
	—517.544.5	.548	Spaces of analytic functions
12	Theory of integration. Riemann integral. Lebesgue integral. Stieltjes integral		Generalizations of analytic functions.
.13	Singular integrals		Quasi-conformal mappings. Quasi-analytic classes. Pseudoanalytic functions. Monogenic functions. Analytic matrices
.14	Integrals of potential type	.55	Functions of several complex variables.
.15	Theory of differentiation. Derivates		Approximation. Integral representations.
.17	Mappings	.57	Holomorphic functions. Entire functions
.18	Curved surfaces		Harmonic functions and their generalizations.
.2	Classes of functions (sets of functions)		Subharmonic functions. Polyharmonic functions. Plurisubharmonic functions
.22	Compact families of functions. Epsilon nets		
.23	Imbedding theorems for classes of differentiable functions. Weight classes		
.24	Functions of bounded variation		
.25	Quasi-analytic functions		
.26	Other classes of functions		
.27	Superpositions		
.28	Inequalities		

517.58	Special functions. Hyperbolic functions. Euler integrals. Gamma functions. Elliptic functions and integrals. Bessel functions. Other cylindrical functions. Spherical functions. Legendre polynomials. Orthogonal polynomials. Chebyshev polynomials. Jacobi polynomials etc. Hypergeometric series and functions	517.965 .968 .2 .4 .7 .97 .972 .974 .977 .98 .982 .1 .2 .3 .4 .983 .2 .5 .6 .8 .984 .2 .3 .4 .5 .7 .986 .2 .3 .4 .5 .6 .7 .9 .987 .988 3 .5 .6 .8 519.1 .11 .12 .13 .14 .17 519.2 .21 .211	Functional equations. Functional inequalities Integral equations Linear integral equations Nonlinear integral equations Integro-differential equations Calculus of variations. Mathematical theory of control Functional analytic methods in calculus of variations. Existence theory Topological methods in the calculus of variations. Variational theory of geodesics Mathematical theory of control. Optimal control. Differential games Functional analysis and operator theory Linear spaces with topology and order or other structures Ordered and semiordered spaces Topological linear spaces. Banach spaces. Hilbert spaces. Fréchet spaces Linear functionals and conjugate spaces. Theory of moments Theory of generalized functions (distributions) Linear operators. Linear operator equations Linear operators in infinite-dimensional linear spaces. General properties Linear equations in infinite-dimensional linear spaces Vector functions. Operator functions Families of linear spaces. Categories of linear operators Spectral theory of linear operators Spectral theory in general topological linear spaces and spaces with quasitopology Spectral theory in Banach spaces Spectral theory in Hilbert spaces Study of the spectrum of concrete operators, including differential and integral operators Operator extensions Topological algebras. Theory of infinite-dimensional representations Topological algebras (rings) and their continuous representations Algebras (rings) of linear operators Infinite-dimensional representations of groups Infinite-dimensional representations of Lie algebras Harmonic analysis of functions of groups and homogeneous spaces Semigroups of linear or non-linear operators. Evolution equations Other algebraic structures in functional analysis Measures. Representations of Boolean algebras. Metric theory of dynamic systems Nonlinear functional analysis and approximation methods Nonlinear functionals Nonlinear operators Nonlinear equations in functional spaces Application of functional analysis to theory of approximation methods
.9	Differential equations. Integral equations. Other functional equations. Finite differences. Calculus of variations. Functional analysis		
.91	Ordinary differential equations: general theory		
.911	General questions. Existence theorems. Uniqueness theorems. Theorems on differential properties of solutions		
.912	Methods of solution of different types of equation and systems of equations		
.913	First integrals		
.922	Equations not solved with respect to the highest order derivative. Singular solutions		
.923	Special types of ordinary differential equation. Riccati, hypergeometric, Bessel, Mathieu, Hill equations etc.		
.925	Systems and analytic theory of ordinary differential equations		
.4	Theory of equations and systems of second order		
.5	Theory of equations and systems of arbitrary order		
.7	Analytic theory of ordinary differential equations		
.926	Linear ordinary differential equations and systems		
.927	Boundary value problems for ordinary differential equations. Eigenvalues. Eigenfunctions		
.928	Asymptotic methods in ordinary differential equation theory. Averaging methods. Invariant manifolds		
.929	Differential difference equations (with retarded arguments etc.)		
.93	Special differential equations. Systems of analytic mechanics, automatic control, operators. Dynamic systems		
.933	Equations of analytic mechanics		
.935	Equations of automatic control systems		
.936	Pfaffian equations and systems		
.937	Operator differential equations, in infinite systems, in Banach spaces etc.		
.938	Theory of dynamic systems		
.95	Partial differential equations		
.951	General theory of partial differential equations. Variational methods. Analytic methods. Transform methods. Other methods. Geometric theory. Approximations		
.952	General first-order equations and systems. Properties, types etc.		
.953	General higher-order equations and systems. Properties, types etc.		
.954	Boundary value problems. General theory. Equations on manifolds		
.955	Cauchy problem for partial differential equations. Asymptotics of solutions of partial differential equations		
.956	Linear and quasilinear equations and systems		
.2	Elliptic equations and systems. Potential theory. Potentials		
.3	Hyperbolic equations and systems		
.4	Parabolic equations and systems		
.957	Nonlinear equations systems		
.958	Differential and integral equations of mathematical physics		
.96	Finite differences. Functional and integral equations		
.962	Finite differences		
.1	Theory of finite differences		
.2	Finite difference equations		
.8	Application of the calculus of finite differences to differential equations		
			COMBINATORICS. GRAPH THEORY Classical combinatorial theory and problems Factorials. Partitions Permutations in general. Groups where order is taken into account Combinations in general. Groups where order is immaterial Special combinatorial arrays and configurations. Special matrices. Binary matrices. Hadamard matrices etc. Block designs. Tessellation problems Graph theory. Trees
			PROBABILITY. MATHEMATICAL STATISTICS Probability theory. Stochastic processes Foundations and axioms of probability theory

519.212	Abstract probability theory. Combinatorial probabilities. Geometric probabilities	519.613	Numerical methods for matrix inversion
.213	Probability distributions and densities. Normal distribution. Characteristic functions. Measures of dependence. Infinitely divisible laws. Stable laws	.614	Numerical methods for computing eigenvalues and eigenvectors of matrices
.214	Limit theorems	.615	Numerical methods for the solution of transcendental equations and systems of equations
.216	Stochastic processes in general. Prediction theory. Stopping times. Martingales	.62	Numerical methods for solution of ordinary differential equations
.217	Markov processes	.622	Cauchy problems for ordinary differential equations
1	General theory of Markov processes	.624	Boundary value problems for ordinary differential equations
.2	Markov chains. Processes with finite or countable set of states	.63	Numerical methods for solution of partial differential equations
.3	Processes with independent increments	.632	Second-order equations of elliptic type
.4	Diffusion processes and their applications	.633	Second-order equations of parabolic and hyperbolic type
.5	Additive functionals. Probabilistic potential theory	.635	Partial differential equations of higher order (and systems of such)
.6	Transformation of Markov processes	.64	Numerical methods for solution of integral equations. Quadrature formulae
.7	Boundary theory for Markov processes	.642	Numerical methods for solution of integral equations
.8	Controlled Markov processes	.644	Quadrature formulae
.218	Special stochastic processes	.65	Approximation. Interpolation
.2	Branching and epidemic processes	.651	Approximation of functions
.4	Renewal processes	.652	Interpolation. Extrapolation
.5	Point random processes	.653	Numerical differentiation
.7	Gaussian processes and measures	.654	Least squares method
.8	Stationary and harmonizable sequences and processes	.657	Empirical formulae
.219	Random functions of several variables	.66	Mathematic tables and their compilation —51-3
.22	Statistical theory. Statistical models. Mathematical statistics in general	Special auxiliary subdivisions	
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.12	Motion of points	.32	Generalities on the motion of a point mass
.13	Motion of extended figures	.33	Problems of tautochronism.
.131	Motion of one-dimensional figures	.35	Brachistochronism. Isochronism
.132	Motion of two-dimensional figures. Moving planes	.351	Motion under the action of central forces.
.133	Motion of three-dimensional figures	.352	Central forces
.134	Motion of multidimensional figures (more than three dimensions)	.353	Centripetal forces. Centrifugal forces
.14	Translation. Sliding	.355	Motion about a centre of gravity
.15	Rotation. Angular velocity. Angular acceleration	.36	Motion under particular laws of force.
.16	Free motion. Composition of translations and rotations	.37	Investigation of forces causing motion satisfying certain given conditions
.17	Guided motion. Constrained motion	.38	Motion with reference to resistance of the medium
.18	Relative motion	.391	Generalities on motion of a solid body or of a system of rigid solid bodies Small motions.
.19	Statistical mechanics	.392	Stability. Poinso't's theory
.2	Statics. Forces. Equilibrium. Attraction —531.35; 531.42	.394	Motion of a solid body unaffected by force.
.21	Statics in general. Laws. Processes	.395	Free motion
.211	Forces. Lines of forces. Force fields	.396	Other motions of a solid body. Motion about a fixed point. Motion about an axis etc.
.213	Principle of virtual displacement. Laws of Clapeyron, Maxwell, Bett, Castigliano	.4	Bodies of rotation. Gyroscopes. Spinning tops
.215	Geometry of masses in general	.41	Dynamics of material systems. Motion of cables, cords, strings. Motion of flexible surfaces, membranes
.216	Geometry of segments in general	.42	Integrals common to various problems of dynamics
.22	Composition and resolution of forces. Stresses	.43	Methods of transformation in mechanics
.221	Equilibrium. Parallelogram of forces. Equilibrium of external and internal forces. Parallel and non-parallel forces. Funicular polygons. Force polygons. Catenaries	.44	Dynamics of systems subject to conditions varying in time
.222	Tensions	.45	Relative motion of systems of solid bodies
.223	Forces of compression	.46	Work. Weight. Mass. Friction. Passive resistance
.224	Bending stresses	.47	Work. Efficiency
.225	Torsional stresses	.49	Weight Mass. Relative density (specific gravity). Density
.226	Shear stresses	5	—531.75
.228	Secondary stresses	.51	Friction in general
.23	Moments	.52	—539.62
.231	Determination of moments of inertia. Axes of inertia. Centrifugal moments Property of beam section	.53	Sliding friction
.232	Torque. Turning moments	.55	Rolling friction
.233	Moments of various orders with reference to a plane		Combination of gliding and rolling friction
.234	Static moment. Moment of a force		Resistance of an axis of rotation
.235	Properties of the product of inertia Σmxy and analogous expressions		Other passive resistances
24	Centre of gravity, e.g. 531 24-1 Centre of gravity of lines -2 Centre of gravity of planes -3 Centre of gravity of volumes		Gravity. Gravitation. Pendulums. Ballistics
.25	Graphical statics Analytical statics		Laws of universal attraction
252	Specific stresses Stress ellipses. Stress ellipsoids		—528.27; 550.312
.255	One-dimensional bodies		Laws of falling bodies
258	Plane bodies. Two-dimensional bodies		Pendulum theory. Various kinds of pendulum
259	Three-dimensional bodies. Solid bodies Hollow bodies		External ballistics. Path and motion of projectiles. Trajectory
26	Attraction. Laws and applications of potential Specific solutions of integration problems		—623.5
.261	Newtonian attraction. Potential. Equipotential Equipotential lines and surfaces		Special auxiliary subdivisions
.1	Attraction of lines	531 55 011	Abscissa. Range
.2	Attraction of surfaces, especially single shells	.012	Ordinate. Rise
.3	Attraction of homogeneous bodies, volumes	.013	Fall. Descent phase
.4	Attraction of non-homogeneous bodies	.014	Flight duration
.5	Attraction of bodies with irregular boundaries	.015	Inclination of tangent
.262	Solution of Neumann's problem, Dirichlet's problem	.016	Final velocity
		.018	Radius of curvature
			Principal divisions
		531.551	Motion in a vacuum. Equation, coordinates, geometric properties of trajectory
		.552	Motion in a resisting medium
		.553	—532.582
		.554	Differential equations of movement.
			Transformations. Hodographs
			Inverse ballistic problem

531 555	Elements of the trajectory Laws of air resistance	531 743	Measurement by reflection. Reflection goniometry
557	Study of rectilinear horizontal and vertical motions	—681.786.3	
558	Firing tables Various other tables	745	Indirect measurement. Sine-bars. Surface and angle plates
.56	Secondary motions in the air. Effect of spin of projectile and of variation of ballistic elements	746	Gradient measurement. Clinometers
		.747	Standard angles. Set squares
561	Laws of spin of projectiles Nutation. Yaw. Drift	.748	Photographic goniometry. Photogoniometry
562	Influence of density variations in resisting medium	.749.1	Solid angle measurement
564	Influence of atmospheric air movement. Deviations due to wind	.75	Measurement of mass and density
.565	Influence of projectile characteristics, e.g. weight, centre of gravity, stability	.751	—681.26
.566	Experimental study of misfirings, failures, stray shots	.753	Standards of mass Measurement of mass
.567	Probability of hitting target. Strike probability Distribution of projectiles	754	Methods of weighing
.57	Internal ballistics. Motion in the barrel. Laws of powder combustion	755	Density measurement generally Density of solids. Determination of relative density (specific gravity)
.58	Terminal ballistics. Target penetration	.756	Measurement of density or relative density of lumpy, granular, pulverous materials. Density of powders
6	Mechanical energy. Conservation of mechanical energy	.758	Measurement of density of liquids
61	Energy. Momentum	.76	Measurement of density of gases
.62	Law of conservation of energy in mechanics	.761	Measurement of time intervals, velocity, acceleration
.64	Potential energy	.767	Measurement of time intervals
.65	Kinetic energy Principle of kinetic forces	.768	—529.7; 681.11
.66	Collision of bodies. Impact	.77	Velocity measurement. Velocimeters
.7	Measurement of geometric and mechanical quantities. Instruments. Methods. Units	78	Acceleration measurement. Accelerometers
.71	Linear measurement	781	Measurement of angular velocity. Revolution counters. Tachometers. Kinemometers.
.711	Reference lengths. Standard lengths, measures	783	Stroboscopes
.712	Measurement of datum lines	.787	Measurement of force, work, pressure
713	Comparators Cathetometers		—620.1
714	Measuring instruments and machines. Micrometers. Slide gauges		Measurement of force Measurement of torque, twisting moment. Tension measurement
715	Optical precision methods and apparatus Interferometry		Measurement of work in general
716	Everyday measuring devices Industrial measurement. Rules, rulers, yardsticks Tape measures Measuring compasses, dividers	1	Pressure measurement. Manometers.
717	Measurement of thickness, diameter, height, depth, inclination, flatness, parallelism	.2	Pressure cells. Barometers
.1	Methods and apparatus for measurement of thickness, diameter, separation (perforation pitch etc.)	.3	<i>Details by special auxiliaries at 53, e.g.</i>
.2	Measurement of shapes, profiles etc.	.4	531 787 087.4 With automatic recording.
.3	Height measurement. Depth measurement. Pitch measurement	5	Recording manometers.
.5	Indicators. Pointers. Minimizers. Dial gauges	.6	Barographs
.7	Measurement of spheres. Spherometers	.7	With flexible tubes. Bourdon tubes
8	Testing of flatness, straightness, parallelism	.91	With diaphragms Pressure cells. Metal barometers. Aneroid barometers.
718	Gauges. Templates. Limit gauges	.788	Hypsometers. Hypsometric barometers
	—621.753.3	1	With piston Piston manometers
719	Other instruments for length measurement	5	With liquid, air, float. Mercury barometers.
.1	Curvimeters	6	Ring- balance manometers
2	Distance measurement, ranging. Ranging instruments	7	Optical manometers
.3	Depth measurement and instruments	.79	Micromanometers
.4	Height measurement and instruments, e.g. for aircraft. Altimeters	791	Differential pressure gauges
.72	Measurement of surfaces, sections	.792	Electrical pressure measurement
.721	Planimeters. Integrators	.793	Measurement of vacuums. Vacuum meters
.722	Special compasses for area measurement	.8	Mechanical vacuum gauges
.724	Measurement of specific surface of granular materials		Optical vacuum gauges. Discharge tubes as vacuoscopes
.728	Surface measurement using microscope		Thermal vacuum gauges. Thermal conductivity vacuum gauges (Pirani gauges)
729	Calipers. Gap gauges		Electrical vacuum gauges. Ionization gauges.
.73	Measurement of volumes	532	Discharge tubes as vacuum gauges
	—542.3; 681.12		Other measuring apparatus
.731	Volume measurement of solid bodies, hollow bodies, loose matter		Counting methods. Methods of estimating, totalizing, a number of units
.732	Measurement of liquid volumes		Methods of division. Dividing apparatus.
.733	Measurement of gas volumes		Parallel and angular division
.74	Measurement of angles. Goniometry	.1	Measurement of degree of curvature
.741	Protractors. Contact goniometers		Theory of machines. Technical mechanics in general
			—621.01
			FLUID MECHANICS IN GENERAL.
			MECHANICS OF LIQUIDS
			(HYDROMECHANICS)
			<i>Information about mechanics of both liquid and gases is classed here; also mechanics of liquids alone</i>
			Hydrostatics in general

Special auxiliary subdivisions532.1-1/-9 $\approx$ 531-1/-9**Principal divisions**

532.11	Pressure
	—531.787
.12	Compressibility. Elasticity
.13	Internal friction. Viscosity
.132	Fluidity. Superfluidity
.133	Viscosity coefficients
.135	Rheology
.137	Viscometers. Consistometers
.14	Density
.2	Equilibrium of liquids
.21	Surface level. Surfaces
.217	Measurement of surface level. Depth gauges
.22	Free surfaces
.23	Equilibrium of several superposed liquids
.24	Relative equilibrium
.25	Equilibrium of a heavy liquid rotating about an axis
.29	Levels. Spirit levels. Bubble levels. Communicating vessels
.3	Immersed bodies (submerged bodies). Floating bodies
.31	Conditions of equilibrium
.32	Stability. Theory of floating vessels
.33	Equilibrium of bodies of particular shapes, e.g. right prisms
.5	Liquid motion. Hydrodynamics
532.5-1/-9	Special auxiliary subdivisions
	Liquid motion in lines, surfaces, spaces
	532.5-1/9 $\approx$ 531-1/-9
532.5.01/.08	Principles, characteristics, measurement
	532.5.01/.08 $\approx$ 533.6.01/.08
532.51	Principal divisions
	Liquid motion in general. Hydrodynamics in the strict sense
.511	Dynamic equations of motion. Euler's equation. Lagrange's equation. Equation of continuity
.513	Bernoulli's equation
.516	Classical theory of viscous liquids. Friction in lubricants
.5	Theory of viscous lubrication. Fluid wedge theories
517	Liquid motion according to type of flow
.2	Laminar flow
.3	Transition region between laminar and turbulent flow
.4	Turbulent flow
6	Pulsating flow
518	Surfaces of discontinuity. Helmholtz free streamlines
52	Conditions of fluid motion
521	Theory of liquid filaments. Air inclusions
522	Flow through orifices. Liquid streams
525	Flow through nozzles. Jets. Sprays
526	Boundary layers. Surface friction (skin friction)
527	Rotational motion. Vortices
528	Cavitation. Formation of hollow spaces
529	Mixing of gases and liquids. Two-phase fluids. Motion of gas-liquid mixtures
.53	Open-channel phenomena. Falls. Weirs. Jumps
531	Falls. Waterfalls. Profiles of nappes in general
532	Weirs. Notches
533	Overflows. Spillways
535	Hydraulic jumps
537	Inlet, outlet channels. Backwaters. Drop-down curves
54	Liquid motion in various systems
.542	In tubes, pipes. Closed full conduits
.543	In open conduits. Channels. Canals. Rivers
.1	Flow as function of periphery and gradient
.2	With low gradient
.3	With high gradient
.4	Flow as function of discharge
.5	Flow as function of suspension
.6	Obstructions to flow
.7	Variations in flow

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Special auxiliary subdivisions

532.61.041

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Principal divisions

532.612

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In porous media

Energy loss. Pressure loss

Flow in straight pipes

Flow round bends

Flow in sluices

Flow at constrictions

Flow at widenings. Diffusers

Flow measurement. Velocity, rate of flow.

Quantity, total flow

Gauging with weirs, spillways

Measurement of surface velocity (with floats, rods etc.)

Measurement of internal velocity (with Pitot tubes, with tracers etc.)

Direct measurement of rate of flow (with Venturi meters etc.)

Pressures induced by relative motion of bodies and fluids. Resistance to motion

Fundamental equations. Supposition of a perfect fluid. D'Alembert's paradox

Immersed bodies (submerged bodies). Suspended particles

Floating bodies. Floating vessels

Suspensions as liquids

Light suspensions

Heavy suspensions

Influence of cross-sectional shape of stream.

Wall effects. Interference effects

Wave motion

—551.466

Translational waves. Velocity of wave propagation

Single waves. Propagation of waves in a moving liquid

Billows. Shallow waves. Large waves. Theory of sea waves. Deep waves. Ground swell

Capillary waves. Effect of capillarity on other wave phenomena. Ripple tanks

Oscillating columns of liquid. Oscillation of water in tubes. Propagation of liquid waves in elastic pipes. Pressure surges. Water hammer

Classical theory of tides

—52.42 and 523.31; 551.466

Surface phenomena. Surface tension.**Capillarity**

Surface tension. Interfacial tension

Static tension

Dynamic tension

Surface tension

Interfacial tension (tension of contact surfaces, boundary layers)

Surface energy. Interfacial energy (energy of contact surfaces, boundary layers)

Interfacial activity of dissolved substances

Properties of thin films of liquid. Figures made with soap solution. Plateau's figures

Minimum surfaces. Soap bubbles

Capillarity

Wetting angle. Contact angle

Free surface under action of capillary forces

Rayleigh phenomena of break-up of jets by surface-tension effects and droplet formation

Capillary tubes

Motion due to capillary forces

Various properties depending on surface tension

Surface activity in general

Power of forming thin films. Unctuousity (oiliness)

Formation of gas-liquid systems. Foam. Frothiness

Formation of emulsions. Emulsifiability

Behaviour relating to solids

Wetting capacity

Washing capacity

Retention of liquids in solid-liquid systems

Kinetic theory of liquids. Osmosis. Solution and solutions

532.71	Osmosis. Semi-permeability. Osmotic pressure	533 6 011 6	Heat-transfer phenomena of moving bodies and gases. Aerothermochemistry
.72	Diffusion	7	Compressibility. Compressibility effects.
.73	Solution. Solution phenomena. Physical solution. Solution kinetics	8	Shock waves
74	Molecular state. Association. Structure	013	Superaerodynamics (flow in rarefied gases)
.77	Physical properties of solutions. Influence of the equilibrium pressure on melting point and freezing point. Cryoscopic constants	.1	Dynamics of aeronautic machines
.771	Dilute solutions	12	Dynamic theory applied to dynamics of aeronautic machines
.772	Concentration with reference to amount of particular constituents	.13	Air resistance. Aerodynamic drag
773	Concentrated solutions	.15	Lift. Normal force
.78	Crystallization of liquids. Crystallization from solutions	16	Moments Pitching Rolling Yawing etc
	—536.421.4; 548 5	.2	Thrust
781	Crystallization of pure liquids	3	Unsteady motion
.782	Metastable, supercooled liquids. Solidified liquids	4	Steady motion
.783	Anisotropic liquids. Liquid crystals	6	Stability
.785	Crystallization from solutions	.7	Flight position. Stalling Nose-dive etc
.787	Supersaturated solutions	.8	Spiral dive. Spin
		015	Acceleration stresses. Vg tests (vertical gust tests). Gust loads
		04	Performance. Take-off. Landing Speed
			Aerofoil characteristics and variables
			533 6.04 $\approx$ 533 69.04
533	MECHANICS OF GASES. AEROMECHANICS	.05	Operational observations, testing, recording, in service
	PLASMA PHYSICS	052	Ground testing (before take-off After loading)
	<i>Information about both liquids and gases is classed in 532</i>	.054	Flight testing Test flights (manned, piloted)
.1	Properties of gases	.055	Model testing (unmanned, pilotless)
.11	Specific volume	.07	Wind tunnels. Shock tubes. Tanks. Other ground testing techniques and apparatus
.12	Density	.071	Wind tunnels. Design, construction, fitting out Shock tubes
	—531.758	072	Models. Simulators. Analogies
.13	Archimedes' principle applied to gases.	074	Water tanks Water tunnels
	Correction of weighings. Upthrust	075	Apparatus with rotating devices Spinning towers
15	Diffusion and penetration of gases. Inflow	076	Electrolytic tanks for solving potential flow problems
.16	Internal friction. Viscosity	078	Ballistic and other special testing apparatus and techniques
.17	Outflow	08	Flow and flight measurement. Anemometry etc.
.2	Elasticity. Compressibility. Liquefaction. Gas mixing. Gaseous mixtures		533.6.08 $\approx$ 53 08
21	Compressibility	Principal divisions	
22	Approximate laws. Boyle's law (Mariotte's law)	533 61	Theory of lighter-than-air aircraft (aerostats)
.23	Limits of Boyle's law. Experiments of Pouillet, Dulong, Arago, Regnault	.62	Theory of free balloons, including hot-air balloons. Montgolfier balloons
24	Liquefaction. Solidification of gases Liquid air	.63	Theory of captive balloons
	—621.592; 66.078	.64	Theory of dirigibles (airships)
27	Gaseous mixtures. Properties of gas mixtures. Partial pressure. Hygrometry	.65	Theory of heavier-than-air aircraft (Aerodynes. Aeroplanes)
273	Partial pressure	.652	Landplanes
275	Humidity. Hygrometry	.655	Seaplanes
.276	Katathermometers. Katathermometry	.657	Amphibious aircraft
5	Rarefied gases. Vacuum physics	.66	Theory of other flying machines
	—531.788; 621.52	.661	Rotorcraft. Helicopters
51/ 57	Rarefaction by mechanical means. Air pumps	.662	Airscrews
51	Mechanical air pumps. Oil vacuum pumps	.2	Driving screws. Propellers
.52	Mercurial air pumps	3	Fans
54	Water jet pumps. Fluid jet pumps	.5	Tilting propellers. Tilting rotors
55	Steam jet pumps. Mercury vapour jet pumps	.6	Lifting airscrews. Helicopter rotors
.56	Molecular pumps. Diffusion pumps	.7	Windmill sails
.57	Batteries of air pumps. Combinations of kinds of pump listed above. Pump controls	.664	Aircraft with moving wings (except helicopters). Ornithopters etc.
58	Rarefaction by other physical and chemical means	.665	Missiles, rockets (aerodynamic aspects).
581	Use of low temperatures	666	Re-entry configurations
582	Ion pumps		Devices for non-powered flight. Parachutes.
583	Use of absorbent and adsorbent substances	68	Kites. Gliders
	Charcoal. Silica gel. Getters		Aerodynamic studies, including interference problems, of bodies moving on or near surfaces (on ground, decks, water). Ground effect. Hovercraft (air-cushion vehicles)
.585	Use of purely chemical means. Reducing agents	69	Aerodynamic studies of aircraft elements, including aerofoils
587	Gas consumption ('clean-up')		
.59	Experiments in a vacuum. Vacuum plant		
.6	Aerodynamics		
	—629.7		
Special auxiliary subdivisions		Special auxiliary subdivisions	
533.6.01	Aerodynamic principles and theory	533.69.04	Aerofoil design and dimensional characteristics. Air-flow variables
.011	Motion of and in gases. Gas flow		Aspect ratio. Span-chord ratio
.1	Dimensional analysis. Scale effect	.041	Chord line and related characteristics.
.3	Subsonic flow. Transonic flow	.043	Camber. Taper and twist
.5	Flow at supersonic velocities		

533.69.044	Thickness distribution
.045	Dihedral design
.046	Surface conditions. Unevenness etc.
.047	Other aerofoil characteristics. Fineness ratio etc.
.048	Air-flow variables
Principal divisions	
533.692	Wing sections
.693	Complete wings. Planforms
.694	High-lift devices. Controls
.2	Flaps. Slots. Slats
.5	Control surfaces
.51	Lateral controls. Ailerons
.52	Elevons
.53	Longitudinal controls. Tailplanes etc.
.54	Directional controls. Fins. Rudders
.58	Tabs
.6	Jets as high-lift devices or controls
.7	Boundary layer control
.71	Suction
.72	Blowing
.73	Fences. Vortex generators. End plates
695	Components in combination. Interference problems
.1	Wing
.2	Body
.4	Tail: vertical, horizontal
.5	Cascades. Multiplanes
.7	Jet. Exhaust
.8	Propeller. Airscrew. Rotor
.9	Other components. External equipment. Landing gear. Tanks. Nacelles. Pods. Weapons etc. Protuberances. Recesses. Doors. Bays etc. Heat shields (including extensible shields)
696	Bodies
.2	Spheres
.3	Cylinders
.4	Cones. Nose cones
.5	Other bodies of circular cross-section. Bodies of revolution
.6	Bodies of non-circular cross-section
.7	Forebodies
.8	Afterbodies
.697	Internal aerodynamics
.2	Inlets. Intakes
.3	Ducts. Passages. Bends. Diffusers. Vortex tubes
.4	Nozzles. Jets
.5	Ejectors. Jet pumps. Outlets. Bleeds
.6	Bodies in ducts
.7	Kinetic theory of gases. Continuity of state —539.1, 539.2
.72	Kinetic phenomena. Brownian movement
.73	Kinetic energy. Mean velocity of molecules. Mean energy of molecules
.74	Avogadro's number
.75	Continuity of state. Van der Waals' equation and corrections of it
.77	Kinetic theory of equilibrium of phases
.9	Plasma physics —538.9; 621.039.61
Special auxiliary subdivisions	
533.9.1	Plasma (and plasma waves) according to state
..12	Electron state
..13	Ion state
...15	Low-temperature plasmas (10 000K to 100 000K)
...16	High-temperature plasmas (over 100 000K)
Principal divisions	
533.92	Plasma reactions, including atomic cross-sections, reaction rates
.93	Statistical behaviour of plasmas. Plasma transport, velocity
.95	Plasma dynamics
.951	Plasma waves, oscillations. Plasma resonances. Shock waves
.952	Pinch effect
.98	Plasmoids

534	VIBRATIONS. ACOUSTICS <i>Class here information about acoustic vibrations; also analogous information about other vibrations</i>
Special auxiliary subdivisions	
534-13	Vibrations in gases
-14	Vibrations in liquids
-16	Vibrations in solids
-18	Vibrations in heterogeneous, multi-phase systems
-6	Low-frequency vibrations (long wavelength) —534.321.8
-7	Audible-frequency vibrations. Sound waves
-8	High-frequency vibrations (short wavelength) —534.321.9
534.01	Elementary theory of vibrations
.011	Transverse waves
.012	Longitudinal waves
.013	Torsion waves
Principal divisions	
534.1	Vibration of bodies. Excitation of vibrations. Vibratory formations with distributed mass and elasticity
.11	Vibration of linear bodies
.112	Vibration of strings
.113	Straight rods. Hollow cylinders
.114	Curved rods. Tuning forks —534.321.7
.115	Liquid columns. Gas columns. Pipes
.12	Vibration of two-dimensional bodies. Surfaces. Membranes
.121	Theory of vibrations in two dimensions. Solid vibrating bodies. Bells
.122	Liquid layers. Gas layers
.13	Vibration of three-dimensional bodies
.131	Theory of vibrations in three-dimensional bodies
.132	Closed cylinders
.133	Vibrations in quartz
.138	Vibrations in small particles dispersed in a liquid
.14	Methods of exciting vibrations
.141	Mechanical excitation. Plucking. Striking. Bowing. Blowing
.142	Thermal excitation
.143	Electric and magnetic excitation
.17	Various influences on vibrations. Acoustic Doppler effect
.2	Propagation of vibrations. Processes in the acoustic field
.21	Propagation of vibrations
.22	Velocity of propagation. Explosion waves. Detonation waves
.23	Transmission of vibrations through the acoustic field
.231	Vibration field. Acoustic field
.232	Vibration sources. Acoustic radiators.
.24	Vibrators
.25	Reflection of waves. Echo. Resonance
.26	Refraction of waves
.27	Diffraction of waves
.28	Polarization of waves
.29	Physical effects on waves. Damping. Absorption
.3	Physical effects produced by sound waves —615.837; 66.084
.31	Musical sounds and perception —681.8; 78
.32	Objective causes of sensation of sound
.321	Sound quality. Nature of sound sensation
.1	Pitch
.2	Limits of audibility
.3	Intervals
.4	Musical scales
.5	Harmonic overtones. Subharmonic tones. Undertones
.6	Harmonies, concords. Dissonances, discords
.7	Absolute pitch. Standard tuning forks
.8	Subsonic vibrations —534-6

534 321.9	Ultrasonic vibrations	534 863	Telephone acoustics. Intelligibility (in telephony). Syllabic clarity, distinctness
	—534.8		Public address systems
.322	Timbre, tone-colour. Amplitude. Noise	864	Signalling acoustics. Sound signals
323	Subjectively perceived sound intensity	.87	Range of acoustic signals
	Loudness	.873	Directional characteristics
	—534.61; 534.79	.874	Sound location Acoustic direction-finding.
324	Comparisons and contrasts of sounds and colours	88	Sound- ranging
.4	Analysis and synthesis of sounds		—681 88
41	Qualitative analysis of sounds. Resonators	535	OPTICS
.42	Synthesis of timbre. Sirens		—159 937 51; 537.53; 537 86/ 87; 539.1
44	Quantitative analysis of sounds Fourier series		Special auxiliary subdivisions
.5	Composition of vibrations	535-1	Long waves. Infra-red
.51	Composition of parallel vibrations	-11	Very long waves, above radio wavelengths (about 10 000 m)
511	Propagation of vibrations in the same direction. Interference. Beats	-12	Radio wavelengths
512	Interaction of vibrations in opposite directions. Standing waves	-14	Wavelengths between Hertzian and infra-red
52	Interaction of non-parallel vibrations	-15	True infra-red waves
6	Acoustic measurements	-2	Visible light. Colours
.61	Measurement of intensity. Sound pressure. Sound velocity	-201	Colourless (in clear transparent bodies)
	—534.323; 534.79	-202	White
.62	Sound-absorbent chambers. Anechoic chambers (dead rooms). Echo chambers	-203	Grey
	Resonance chambers. Measurement of total energy of sound sources	-204	Black
.63	Measurement of frequency	-21	Red
.64	Measurement of acoustic-mechanical impedance. Echo- sounding. Seismographs	-211 4	Rose Pink
7	Physiological acoustics. Medical acoustics	-22	Orange
.75	Hearing (audition)	-224 5	Brown
	—612.85	-23	Yellow
.76	Binaural, directional hearing (stereoaudition)	-236 6	Olive
77	Hearing defects. Hearing aids	-24	Green
.78	Physics of speech sounds. Human voice	-26	Blue
	Phonation Speech production	-28	Violet
79	Loudness. Concept of loudness, volume	-285	Purple
	—534 323; 534.61	-3	Short waves
.8	Applications of acoustics (theory)	-31	Ultraviolet
	—681.8	-34	Roentgen rays (X-rays)
.83	Vibrations and their control. Control of disturbing noise. Noise abatement		—621.386 and references there
	—351.759.4; 628.517.2; 699.844	-36	Gamma rays
831	Unpleasantness of vibrations. Degree of irritation. Noise. Shocks	-4	Polarized light
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833	Attenuation of vibrations. Vibration damping	-7	Totally reflected light
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836	Noise outside buildings. Traffic noise	.12	Wave theory (Huyghens, Fresnel)
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.86	Sound transmission (radio, television, film). Electroacoustics	.23	—621.383
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			Spectral density. Relative spectral distribution
			Properties of radiation receiver. Radiation measurement (except photometry and colour measurement)
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.5	Concepts of radiation temperature	.5	Immersion methods
.24	Photometry	.323	Refractive indices of solids
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.421	Plane waves. Diffraction gratings Normal spectrum	.613	Brightness. Luminosity
.422	Spherical waves	.616	Saturation. Purity. Whiteness
.423	Cylindrical waves. Graphical methods	.617	Equivalent colours. Colours of equal stimulus
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.515	Production of polarized light	6	Standard chromaticity system (CIE 1931)
.516	Birefringence (double refraction) in general		Relationships between various trichromatic systems. Transformations. Transformation aids
.518	Polarization by double refraction	.644	Tetrachromatic systems. Yellow-blue. Red-green
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.525	Wave surfaces. Single-sheet surfaces of refraction	.3	Measurement formulae. Line elements
.526	Double-sheet surfaces of refraction	.5	Interval dimensions in colour series. Question of interval equality. Equidistant (uniform) colour space
.527	Optic axes and ray axes in general	.7	Equivalence. Very similar colours. Specific comparison
.54	Measurement of axial angle	.647	Colour tolerances. Small colour differences
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.651	Spectral methods. Evaluation of spectrophotometric data
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.653	Matching methods
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.4	Methods using more than three primary stimuli, e.g. Stange's apparatus
.6	Polarization colour methods (Aron's chromoscope. König's leucometer. Priest)
.7	Colour circle methods with control colours
.8	Matching methods using standards from colour collections. Colour charts and colour atlases, e.g. DIN colour cards. Tables of flower colours. Colour samples
.654	Luminosity methods
.4	Subjective luminosity methods
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.658	Empirical methods
.1	Three-filter methods: subjective, objective
.2	Ostwald's suppression filter and pass filter experiments
.66	Colours of objects. Physical conditions of their production
.661	Absorption colours (except metallic absorption) in transmitted and reflected light. Intrinsic colours of bodies
.1	Idiochromatic colours
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.662	Colours depending on structure of particles
.1	Diffraction colours. Interference colours
.2	Diffusion colours. Colloidal colours. Colours of turbid media
.663	Metallic absorption colours
.664	Dispersion colours. Imbibition colours
.665	Colours of self-luminous bodies. Coloured light
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.2	Colour of daylight
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.7	Luminescence colours
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.668	Technical properties of colours and pigments. Covering power. Colouring power. Whiteness
67	Colour rendering
.672	With light sources and viewing through spectacles
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.68	Mutability of colours of bodies. Fastness of dyes. Colour fastness
682	Influence of heat. Thermal effects on colour
	Fastness to ironing. Fastness to sterilization
683	Influence of radiation on colour. Fastness to light. Sun bleaching, fading
684	Influence of chemicals on colours. Fastness to acids. Fastness to alkalis. Chemical bleaching
685	Fastness to water. Fastness to washing, boiling etc. Similar kinds of fastness
686	Fastness to mechanical and climatic influences. Fastness to friction. Fastness to weathering. Fastness to tropical conditions

536 HEAT. THERMODYNAMICS

Special auxiliary subdivisions

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-12	Irreversible
-33	At constant temperature. Isothermal
-34	With constant energy. Adiabatic. Isentropic
-35	Pytropic
-36	At constant pressure. Isobaric. Isopiesic
-37	Of constant volume. Isochoric. Isometric
536.08	Measurement methods and apparatus
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Principal divisions

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.11	Fundamentals of heat theory
.12	Temperature distribution in bodies
.13	Heat potential
.14	Quantity of heat
.2	Heat conduction. Heat transfer
	Special auxiliary subdivisions
536.2.01	Theory and nature of conduction
.02	General laws of conduction. Thermal conductivity
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536.21	Conduction in solids
.22	Conduction in liquids
.23	Conduction in gases
.24	Heat transfer. Heat exchange. Heat transmission
.241	Solid-solid
.242	Solid-liquid. Solid-gas
.243	Liquid-solid-liquid
.244	Gas-solid
.245	Gas-solid-gas
.246	Gas-solid-liquid
.247	Liquid-liquid
.25	Convection without material boundary action
.251	In solids
.252	In liquids
.253	In gases
.255	In heterogeneous systems
.27	Direct flow and counter-flow in heat exchangers
.3	Effect of bodies on heat radiation, e.g.
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.33	Heating and cooling by radiation
.331	Heating by radiation
.332	Cooling by radiation. Cooling curves
.4	Effect of heat input and temperature on volume and structure of bodies
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536 4.032	Lowering and raising of transition points, e.g. melting point
.033	Influence of heterogeneities on thermal change of state, e.g. presence of nuclei at boiling
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.416	Combined effects. Expansion. Contraction. Shrivelling
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421	Change of solid to liquid, liquid to solid
.1	Change of solid to liquid. Melting. Melting point
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.3	Droplets. Dropping point
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.1	Change of solid to gas. Vaporization
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.8	Prevention of evaporation. Evaporation prevention index
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.425	Phase changes in heterogeneous bodies. Devitrification
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.638 2	Effects of temperature on magnetic fields	.7	4II counters
3	Pyromagnetism	.8	Neutron counters. Neutron detectors
.5	Magnetothermal effects	.82	Gas-filled counters using neutron reactors with ^{10}B and other nuclides
.67	Terrestrial magnetism —550 38	83	Scintillation counters
8	Electromagnetism. Electromagnetic field. Electrodynamics. Maxwell theory	.84	Thermopiles
Special auxiliary subdivisions		.85	Foil activation
537.8.029	Frequency ranges of electromagnetic waves 537.8.029 $\approx$ 621.3.029	.88	Detectors for fast neutrons
Principal divisions		.075	Electronic circuit devices for application in nuclear physics
537.81	Interaction of currents and magnets	.076	Apparatus for production of high-energy particles, for research in nuclear physics, atomic physics, molecular physics —621.039.5; 621.384.6
.82	Interaction of currents	.078	Special apparatus for study of particular nuclear, atomic, molecular phenomena
.84	Magnetohydrodynamics	Principal division	
.852	Induction. Mutual induction	539 12	Elementary and simple particles (charge less than 3 including alpha-rays, beta-rays, gamma-rays as individual particles or as radiation)
.853	Self-induction	Special auxiliary subdivisions	
.855	Alternating currents	539.12 1	Characteristics, properties, behaviour of elementary and simple particles <i>Applicable directly to 539.12 itself, e.g.</i> 539.121.2 Mass and charge in general (539.12 and ... 12) <i>or to its subdivisions, e.g.</i> 539.126.331.2 Mass and charge of μ -mesons (539.126.33 and ... 12)
.856	Eddy currents. Skin effect	... 12	Mass and charge
.86	Electromagnetic oscillations and waves. Radiophysics	.. 13	Decay. Energy change (Q value)
.862	Excitation of electromagnetic oscillations	... 14	Spin and moments
.867	Effects on electromagnetic oscillations	... 16	Energy
.868	Effects of electromagnetic oscillations	.. 162	Energy designations of individual particles. Thermal equilibrium
.87	Propagation and radiation of electromagnetic waves	... 164	Energy spectra
.871.1	Wave front. Huygens's principle	.. 17	Interactions with other particles and with matter. Scattering. Diffusion. Reflection. Absorption. Secondary radiations
.3	Field strength	... 18	Beams. Energy spectrum. Polarization
.5	Polarization	Principal divisions	
.6	Propagation paths, distances, angles	539.122	Photons (including gamma-radiation)
.7	Frequency phenomena. Doppler effect etc	.123	Neutrinos. Antineutrinos
872	Energy. Radiative power. Energy distribution	.124	Electrons. Negatrons (including beta-particles). Positrons —537.533; 539.165
874	Phenomena during wave propagation	.125	Nucleons
.2	Reflection	.4	Protons. Antiprotons
.3	Refraction. Refraction modulus. Refractive index	5	Neutrons
.4	Scattering by heterogeneities in propagation medium	.52	Transport of neutrons. Neutron flux distribution
.6	Diffraction	56	Antineutrons
.7	Absorption. Attenuation. Energy loss as function of wavelength	.126	Mesons. Hyperons
.876	Kinds of wave propagation	.3	Light mesons
4	Guided propagation (along and through electrical conductors and non-conductors)	.33	μ -mesons
.877	Effects on wave propagation	.34	π -mesons
538 9	PHYSICS OF CONDENSED MATTER (IN LIQUID STATE AND SOLID STATE) —533.9	.4	Heavy mesons
.91	Structures, including transitions	.6	Hyperons
.93	Transport processes (except in quantum liquids and solids)	.128	Simple particles (atomic number or charge less than 3) —539.14
94	Quantum liquids and solids	.2	Deuterons (^2H)
.95	Properties and phenomena (except transport properties)	.3	Tritons (^3H)
.97	Special geometry and interaction with particles and radiation	.4	Alpha-particles (^4He)
539	PHYSICAL NATURE OF MATTER	.53	Helium-3 (^3He)
.1	Nuclear physics. Atomic physics. Molecular physics —537.1; 621.039	.55	Helium-5 (^5He)
Special auxiliary subdivisions		.14	Nuclei
539.1.073	Apparatus for visualization of tracks of particles	.141	Nuclear forces
.2	Wilson cloud chamber. Expansion chambers. Diffusion chambers	.142	Nuclear models
.3	Bubble chambers	.143	Properties of nuclei
.5	Luminescence chambers	.144	Nuclei in the excited state
.7	Photographic emulsions		
.074	Particle counters. Particle detectors —621.387.4		

539.16	Radioactivity. Radioactive decay	539.22	Isotropy and anisotropy in molecular structure. Order-disorder. Texture of molecular systems and materials (especially synthetics) in general
.162	Statistical nature of radioactive decay. Radioactive series		—548.735
.163	Radionuclides and their characteristics. Decay schemata. Half-life. Energy spectrum	.23	Production of thin films
.164	Alpha-radioactivity and decay	.24	Microstructure revealed by photomicrography. Structure of very small particles
.165	Beta-radioactivity and decay	.25	Properties and structures revealed by ultramicroscopy
.166	Gamma-radioactivity	.26	Properties and structures revealed by radiography (Roentgen radiography, X-radiography). Revelation of fine structure
.17	Nuclear reactions. Fission. Fusion. Chain reactions etc.		—621.386 and references there
	—621.039	.27	Structure of molecular systems revealed by electron diffraction
.171	Scattering: elastic, inelastic. Polarization	.3	Elasticity. Deformation. Mechanics of elastic solids
.172	Individual nuclear reactions		—620.1
.173	Fission	.31	Generalities. Elastic forces. Elastic potential. Elastic region. Elastic limit
.175	Chain reactions. Cyclic reactions	.311	Elastic equilibrium conditions (elastostatics)
.18	Physics of single atoms	.312	Conditions of elastic motion (elastokinetics)
	—535.338; 541.2	.313	Relationships between elastic forces and deformation
.182	General theory. Wave functions. Methods of solution. Atomic models	.319	Internal stresses in a body due to processing, mode of use etc. Stress distribution. Shrinkage stresses
.183	Properties of atoms in general		—539.219.2
.2	Atomic mass. Isotopes	.32	Elasticity moduli. Variation of modulus with conditions, e.g. temperature. Young's modulus
	—54.027; 621.384.8	.37	Deformation in general. Plane deformation. Three-dimensional deformation. Deformability
.3	Electronic configuration (shells etc.). Relationship to periodic table	.371	Temporary deformation. Elastic deformation (spontaneously reversible deformation)
.4	Spin and moments	.372	Non-spontaneously reversible deformation
.5	Size. Dimensions. Radii	.373	Permanent, irreversible deformation. Deformation of hardenable materials
.184	Internal mechanics of atoms. Energy levels and structure. Excited states of atoms	.374	Plastic deformation. Viscous deformation. Properties of solids not cold-workable. Yielding
.186	Excitation and interaction of atoms. Interatomic forces	.375	Deformation at limit. Deformation at breaking. Wear in general
.188	Atomic beams and rays	.376	Deformation under constant load. Creep
.189	Analogous systems. Mesic atoms. Positronium etc.	.377	—539.434
.19	Physics of single molecules		Influence of temperature on deformation. Hardening. Annealing. Quenching
.192	General theory. Wave functions. Methods of solution	.378.2	—539.54
.193	General properties. Configuration and geometry of molecules. Bond lengths and angles in molecules. Moments etc.	.3	Welding by compression
	—541.24	.6	Diffusion of bodies by compression
.194	Internal mechanics of molecules. Energy relationships. Vibration and rotation in molecules. Electronic levels. Bonds. Resonance energies, potentials. Nuclear coupling. Polarizability etc.	.379	Disintegration. Dispersion
.196	Interaction of molecules: with atoms, with other molecules. Excitation and dissociation of molecules. Intermolecular forces		Effects of deformation. Volume: growth, shrinkage, constancy. Slip bands. Slip planes
	—539.6	.38	Various causes of deformation. Graphic representation
.198	Molecular beams and rays	.381	Generalities. Homogeneous and heterogeneous deformation
.199	Macromolecules	.382	Deformation by extension. Stress-strain curves. Stress modulus. Influence of shape of specimen
.2	Properties and structure of molecular systems	.383	Deformation by compression, crushing
	—541.18; 548.1	.384	Deformation by flexion
.21	Properties of molecular systems	.385	Deformation by torsion. Warping. Torsion modulus
.211	Surfaces of molecular systems External structure. Fracture surfaces. Plane fracture. Conchoidal fracture. Laminar fracture. Fibrous fracture	.386	Deformation by shearing. Shear
.213	Amorphism. Amorphous state. Vitreous state. Theory. Properties	.387	Deformation by folding, winding, curving
.214	Plasticity. Plastometry	.388	Other causes of deformation
.215	Pulverulence. Powderiness. Specific surface. Friability. Colloidal distribution. Regularity, homogeneity. Granular fineness	.1	Deformation by fatigue
.216	Cellular structure. Fibrous structure. Laminar structure. Films. Thin films. Radiating structures	.2	Deformation by particular working methods. Drawing. Rolling. Stamping. Pressing.
.217	Porosity. Permeability. Imperviousness	.8	Punching. Deep-drawing. Drilling. Forging
.218	Compactness, closeness. Freedom from pores	.389	Shrinkage and swelling according to moisture content
.219	Other properties and phenomena		Permanent deformation phenomena in solid bodies
.1	Irregularities. Impurities. Inclusions. Heterogeneity. Streaks. Gas emission	.1	Yield point
.2	Relationships between internal stresses and irregularities. Fissures. Cracks. Tears. Splits. Grooves. Notches. Flaking. Peeling.	.2	Hardening. Bauschinger effect
.3	Exfoliation. Discontinuity. Non-cohesion		
	Diffusion. Autodiffusion		

539.389.3	After-effects. Ageing. Recovery.	54-116	Processed. Treated. Converted. Modified
	Accommodation	-12	State as regards atomic or molecular structure
.4	Hysteresis		Gaseous state
.4	Strength. Resistance to stress	-13	Vapour state
	—620.1	-134	Colloidal state with gaseous continuous phase. Mists. Smokes. Aerosols
Special auxiliary subdivisions		-138	Supercritical fluid state
539.4 01	Theory. Various influences on strength		Liquid state
.011	Theory of stress resistance. Cohesion.	-139	Solutions. Homogeneous liquid phase
	Extension. Stretching. Elastic limit. Breaking point	-14	Colloidal state with liquid continuous phase.
.012	Design theory. Permissible stresses	-145	Suspensions. Emulsions. Sols. Gels. Foams
.013	Influence of shape of a body on its strength.	-148	Coarse suspensions
	Notches. Corners. Waists, constrictions		Solid phase
.014	Mechanical influences on strength. Tension.	-149	Amorphous state
	Initial stress. Inherent stress	-16	Crystalline state
.015	Influence of structure on stress	-161	Solid solutions. Homogeneous solid phase
.016	Influence of treatment, working. Cold working. Heat treatment	-162	Colloidal state in solid medium
.019	Other influences on strength. Time.	-165	Special states as regards properties
	Dimensions	-168	Colloidal state in general
		-182	—541.182
Principal divisions			Adsorbed
539.41	Resistance to elastic deformation. Cohesive strength	-183	—541.183
.411	Resistance to compression. Crush resistance	-185	Mixtures. Heterogeneous systems in more than one phase
	Buckling resistance		Activated
.412	Resistance to tension. Tear resistance	-188	Alloys in general
.413	Resistance to flexion, bending	-19	—54-165; 54-185
.414	Resistance to torsion, twisting		Particular kinds of compound
.415	Resistance to shear. Resistance to punching	-3	Oxides
.416	Resistance to creasing, folding, bending	-31	Acids
.417	Resistance to drawing. Resistance to rolling	-32	Bases. Hydroxides
.419	Resistance to complex stresses. Resistance to dropping. Resistance to tumbling	-36	Salts. Analogous compounds
	Breakage. Structural fracture. Tensile strength. Breaking strength	-38	Basic salts
.42	Resistance to repeated stresses	-381	Neutral salts
.43	Resistance to alternating stresses. Fatigue resistance	-383	Acid salts
.431	Resistance to repeated complex stresses, e.g. in transmission shafts	-384	Primary acid salts
.432	Resistance to vibration, oscillation	.1	Secondary acid salts
.433	Creep resistance. Long-time creep strength	.2	Tertiary acid salts
.434	Heat resistance. Resistance to quenching	.3	Peroxy compounds
.435	Natural stress limit. Endurance strength	-39	Chemicals. Reagents
.5	Properties of materials affecting deformability	-4	Reagents in general
	—532.13; 539.214	-41	Standard solutions
.51	Malleability. Weldability	-42	Indicators
.52	Ductility	-43	Catalysts
.53	Hardness. Softness. Hardness scales. Wear resistance	-44	Buffers. Buffer solutions
.54	Hardenability	-45	Degree of purity of chemicals
.55	Toughness. Cleavability. Flexibility	-48	Chemical substances and systems. Origin.
.56	Brittleness. Friability. Fragility	54.01	Occurrence. Phases
.57	Consistency. Flow characteristics	.02	Composition. Structure. Isotopes
.58	Compressibility of solids	.021	Composition and formulas in general.
.6	Intermolecular forces	.022	Molecular formulas. Symbols etc.
	—539.196	.024	Structure and arrangement of atoms in the molecule. Structural formulas
.61	Cohesion. Adhesion	.027	Radicals
.62	Friction		Isotopes
	—531.43		<i>For individual isotopes, see note 'Isotopes' under 546</i>
.621	Sliding friction	.03	Physical properties and constants.
.622	Rolling friction	.04	Mechanical and physical effects
.63	Impact effects	.05	Chemical properties and constants
.67	Internal friction. Attenuability	.057	Production. Preparation. Isolation.
.8	Other physico-mechanical effects	.06	Purification etc.
.87	Mechanical effects of physical phenomena	.061	Synthesis
.89	Effects of mechanical processes. Effects of pressure	.062	Analysis, investigation and handling in general
.893	Production of very high pressures. Hypercompression	.063	Qualitative investigation. Evidence.
		.064	Identification experiments
54	CHEMISTRY. MINERALOGICAL SCIENCES	.066	Quantitative investigation. Determination of quantity
	—550.4; 66	.067	Micro-analysis. Semimicro-analysis
Special auxiliary subdivisions		.07	Trace analysis. Detection and determination of impurities
54-1	State of substance	.08	Investigation by means of specific reactions
	—62-403/-405		Apparatus and equipment for preparation, investigation and analysis
-11	State as regards occurrence and treatment		Measurement principles, methods, techniques. Instrumentation
-112	Natural. Native. Raw. Untreated		54.08 ≈ 53.08, e.g.
-114	Man-made. Synthetic. Artificial. Prepared		

54.08 (cont'd)	54.081 Units. Constants	541.136	Cells. Accumulators
Principal divisions			—621.35
541	THEORETICAL CHEMISTRY	.138	Electrochemical reactions
.1	Physical chemistry	.14	Photochemistry
.11	Thermochemistry	.141	—535.217; 535.37; 77.01
	—536		Generalities. Fundamental theories. Velocity of reaction. Photochemical threshold value. Excitation of molecules and atoms. Measurement of photochemical energy. Actinometry
.113	Molar (molecular) heat. Atomic heat	.143	Specifically photochemical reversible reactions. Photochemical equilibrium
.115	Exothermic and endothermic reactions in general. Heat of reaction in general	.144	Specifically photochemical irreversible reactions. Photosynthesis. Photodecomposition
.12	Chemical mechanics		—581.132
	—533.7		Sensitivity. Sensitometry
Special auxiliary subdivisions			—771.53
541.12.01	Natural state. Origin. Phases	.15	Radiation chemistry. Chemical effects of extraneous radiations (except light) on substances, including mixtures
.011	One-phase systems	.17	—541.28
.012	Two-phase systems	.18	Topochemistry
.013	Three-phase systems. Triple point		Colloid chemistry. Chemistry of adsorption phenomena. Capillary chemistry
.014	Four-phase systems		
.015	Systems with more than four phases		
.017	Equilibria having maxima, minima or other characteristic curves. Eutectic. Dystectic. Peritectic		
.03	Physical properties and constants. Mechanical and physical effects		
Principal divisions		Special auxiliary subdivisions	
541.121	Chemical statics in general. Equilibrium in general	541.18.02	Composition. Structure
.122	Equilibrium of homogeneous systems	.025	Thixotropy
.123	Equilibrium of heterogeneous systems	.03	Physical properties and constants
.1	Systems with one component	.04	Chemical properties and constants.
.11	Water diagrams	.041	Coagulation. Flocculation. Phase separation
.2	Binary systems		Phenomena with alteration of degree of dispersion. Coalescence of particles. Flocculation. Rhythmic precipitation. Liesegang phenomenon
.3	Ternary systems in general	.043	Mechanical phase separation. Centrifuging. Shaking. Sedimentation
.4	Ternary systems with one component divided between two liquid phases. Partition coefficient. Nernst's law		—621.928
.5	Reciprocal salt pairs. Exchange of reciprocal salt pairs	.044	Phase separation by heat
.6	Quaternary systems	.045	Phase separation by increasing concentration. Ultrafiltration. Evaporation. Dessication
.7	Heterogeneous systems with more than four components	.046	Coagulation by electrolytes and ultraparticles
.81	Hygroscopicity in general	.047	Coagulation by other physical means: light, electricity, magnetism
.124	Chemical dynamics in general. Reaction mechanism in general	.048	Coagulation with chemical agents
.2	Commencement of reaction. Reaction initiation. Nucleation	.049	Coagulation by biological means
.7	Coupled reactions. Chain reactions. Thermal activation, dissociation, ionization	.05	Preparation. Dispersion. Peptization. Emulsification
	—539.17	Principal divisions	
.124	Limits of reactions	541.182	Disperse systems. Colloids in the true sense
.126	Spontaneous reactions. Explosions. Reaction range. Physicochemical combustion phenomena. Velocity of ignition	.2/.3	Systems with gases as the continuous phase. Aerosols
.127	Velocity of reaction. Reaction constants	.2	Disperse phase liquid. Mists
.128	Catalysis. Acceleration and retardation of reactions by catalysts. Autocatalysis. Spontaneous combustion	.3	Disperse phase solid. Smoke. Dust
.13	Electrochemistry	.4/.6	Systems with liquids as the continuous phase
	—621.35	.41	Disperse phase liquid
.131	Generalities. Faraday's law. Electrochemical equivalent	.45	Disperse phase gaseous. Foam systems
.132	Electrolytic dissociation. Ions	.6	Disperse phase solid. Colloidal systems
	—537.56; 543.257.1	.64	Lyophilic colloids. Sols. Gels
.3	Hydrogen ion concentration (pH)	.65	Lyophobic colloids. Suspensoids
	—543.241; 543.257.1; 631.415	.8	Systems with solids as the continuous phase
.4	Buffer effect. Buffers. Electrolytic dissociation	.82	Disperse phase solid. Solid sols. Crystal sols
.133	Conductivity and resistance of electrolytes	.83	Disperse phase liquid. Butter. Liquid inclusions in rocks
.134	Electromotive force. Potential series	.84	Disperse phase gaseous. Solid colloidal foams
.135	Electrolysis. Electrolytes. Polarization	.183	Contact systems. Adsorption. Surface chemistry
.1	Electrolysis of pure liquids. Pure liquids as electrolytes	.1	Adsorbent substances with special properties. Ion exchangers
.2	Electrolysis of solutions. Electrolytic properties of solutions	.2	Adsorption mechanism
.3	Electrolysis of molten salts and oxides	.3	Adsorption by means of liquids in general. Adsorption by means of isotropic liquids
.4	Electrolytic phenomena in solid bodies	.4	Adsorption by means of anisotropic liquids
.5	Electrodes and diaphragms, e.g.	.5	Adsorption by means of solids
	541.135.5-033.5 Glass electrodes	.6	Mixed systems. Adsorption by means of ultraparticles
	—034 Metal electrodes	.7	Electroadsorption
.6	Electrolytic polarization. Polarization current		

541.2	Atomic theory	541.66	Relation of chemical structure to thermal properties, especially phase change, boiling point
	—539.1		—536.423.1
.21	Generalities. Relationship between chemical properties of substances and their mass		
.22	Stoichiometric laws. Constants and multiple proportions. Equivalents. Law of volumes of gaseous compounds. Gay-Lussac's law	.67	Relation of chemical structure to electrical and magnetic properties
23	Relative atomic mass (atomic weight)	.68	Relation of chemical structure to mechanical properties
24	Relative molar mass (molecular weight)	69	Relation of chemical structure to physiological properties. Taste. Smell.
25	Relative atomic volume. Relative molar volume (molecular volume) Stereochemistry		Toxicity
.265	Parachor		—543.92
27	Chemical properties based on atomic structure	7	Allotropy in general. Physical isomerism. Various crystalline forms of the same substance. Polymorphism. Enantiotropy. Monotropy
	—541.5		—535 56; 541.62; 548.33
.28	Radiochemistry Study of the dependence of chemical properties of radioactive elements, on nuclear transformations	8	Solutions and solubility in general
	—541.15; 546.79		—532 7
.4	Chemical combination. Kinds of chemical compound	542	PRACTICAL LABORATORY CHEMISTRY. PREPARATIVE AND EXPERIMENTAL CHEMISTRY
.41	Chemical compounds in general. Difference between compounds and mixtures Criterion of a chemical compound		Special auxiliary subdivisions
.42	Reactive and unreactive substances	542 05	Preparative chemistry
.427	Classification of substances according to reactivity	057	Synthesis
	2 Oxidizable substances in general	06	Experimental and investigative chemistry. Special techniques
.3	Combustible substances. Flammable substances		542.06 $\approx$ 54.06
6	Explosive substances, compounds, mixtures	.07	Apparatus and equipment
.7	Corrosive substances	.08	Principles and methods of measurement. Measuring instruments
.428	Inert compounds. Unreactive substances		Principal divisions
	Substances of low reactivity	542 1	Chemical laboratories. Equipment. Arrangement
.44	Hydrides		—727.5
.45	Oxides. Acids. Bases	.2	Laboratory apparatus and techniques in general
451	Oxides in general	.22	Preparation of chemicals. Mechanical separation. Comminution Pulverization. Elutriation. Spatulas. Spoons. Mortars, pestles. Mills
.452	Acids in general		Laboratory vessels. Bottles. Flasks. Retorts. Test tubes. Dishes. Funnels. Tubes. Stirrers
1	Monobasic acids	.24	Stands. Tripods. Tongs
2	Dibasic acids		—621.681
3	Tribasic acids	.3	Measurement of weight, mass Measurement of volume. Apparatus. Balances. Weights. Hydrometers. Gauges. Graduated vessels. Pipettes. Measuring cylinders Burettes
.9	Polybasic acids		—531.73/.75; 681
454	Bases in general	.4	Application of heat and cold. Bunsen burners. Baths. Distillation
.456	Neutral oxides		—66.04
.457	Amphoteric oxides	.41	Laboratory ovens, furnaces
459	Peroxides		542.41 $\approx$ 66.041
.48	Salts	.45	Indirect heating. Water baths Steam baths. Sand baths etc.
481	Basic salts	46	Thermal treatment. Operations, apparatus
.483	Normal salts		542.46 $\approx$ 66.046
.484	Acid salts	47	Drying
486	Complex salts. Double salts		542.47 $\approx$ 66.047
.49	Complex compounds. Complex chemistry	.48	Distillation. Fractionation
.5	Valencies. Bonds. Affinity		542.48 $\approx$ 66.048
.51	Affinity in general	.49	Other thermal operations. Thermal separation
515	Free radicals		542.49 $\approx$ 66.049
52	Constant valency	.5	Use of flames. Blowlamps
.54	Auxiliary valencies		—536.46; 543.41; 662.62
.57	Bonds	.51	Nature and composition of flames. Oxidizing flames. Reducing flames
571	Principal bonds. Homopolar bonds. Covalent bonds. Covalency	.53	Blowpipes. Blowlamps. Blow-torches
572	Secondary bonds. Dipole forces. Van der Waals' forces	.6	Working with liquids
573	Ionogenic bonds. Electrovalency		542.6 $\approx$ 66.06
.574	Metallic bonds	7	Working with gases
6	Chemical structure in general. Chemical structure in relation to properties of substances. Chemistry of high polymers		542.7 $\approx$ 66.07
	—539.2	8	Physical, physicochemical and electrical operations
.61	Structural formulae in general		except those at 542.2/.7
.62	Isomerism. Tautomerism. Mesomerism		542.8 $\approx$ 66.08
.63	Stereochemistry in general	.9	Other chemical processes
.64	Macromolecular chemistry. Polymerization products. Polycondensation products. Polyaddition products		
	—678		
.65	Relation of chemical structure to optical properties		

542.9 (cont'd)	542.9 $\approx$ 66.09	543.3	Water sampling and analysis —628.1; 663.6
543	ANALYTICAL CHEMISTRY	.31	Inorganic substances in water. Inorganic impurities in general
	<i>Chemical analysis of particular substances or classes of substance is denoted by colon, e.g.</i>	.32	Hardness of water
	543:546.13 Analytical determination of chlorine	.37	Dissolved gas content of water
	:637.12 Analysis of milk	.38	Organic substances in water. Organic impurities
	—620.1	.39	Microbiological and bacteriological testing and analysis of water —576.8
Special auxiliary subdivisions			Optical methods of analysis —681.785
543.05	Sampling. Preparation for analysis	.4	Simple visual methods. Colour reactions. Flame coloration
.052	Sampling procedure. Selection of sampling points. Sampling errors etc.	.41	Spectrum analysis. Spectroscopy. Spectrography. Spectrometry.
.053	Technique and apparatus for sample collection. Sampling tubes. Sampling vessels, bottles etc.	.42	Spectrophotometry. Fluorescence analysis
.055	Preparation of samples by dry treatment. Grinding etc.	.43	Colorimetric analysis. Nephelometric analysis
.056	Preparation of samples by wet treatment. Dissolving etc.	.45	Refractometric analysis. Refractometry
.06	Analytical procedure 543.06 $\approx$ 54.06	.46	Interferometric analysis. Interferometry
.08	Analytical measurement 543.08 $\approx$ 53.08	.47	Polarimetric analysis. Polarimetry
Principal divisions		.5	Physicochemical methods of analysis <i>except optical methods, — 543.4</i>
543.2	Special chemical methods of analysis	.51	Positive ray analysis. Mass spectrometry
.21	Separation and determination by wet methods. Wet assay. Gravimetric analysis	.52	Radiometric analysis
.211/.215	Cation separation and determination	.53	Radiochemical methods of analysis.
.217	Anion separation and determination		Activation analysis (analysis with radiations exciting radioactivity or nuclear reactions)
.219	Spot tests. Spot reactions	.54	Capillary analysis. Adsorption analysis.
.22	Separation and determination by dry methods	.7	Stalagmometry. Chromatography.
.224	Bead reactions. Bead tests	.71	Electrophoresis
.225	Blowpipe analysis	.72	Analysis of inorganic substances
.226	Thermal analysis	.73	Water content, moisture. Volatile constituents
.24	Volumetric analysis. Titration. Titrimetric analysis	.74	Soluble constituents. Insoluble constituents
.241	Alkalimetry. Acidimetry	.8	Inorganic impurities
.242	Oxidation analysis. Reduction analysis	.81	Organic impurities
.243	Precipitation using silver salts: silver nitrate etc.	.82	Analysis of organic substances
.244	Precipitation using salts other than silver salts	.83	Water content, moisture. Volatile constituents
.25	Electroanalysis. Electrolytic methods.	.84	Analysis by heating to high temperatures
	Electrometric methods	.85	Soluble constituents
251	Electrolytic precipitation —541.135; 621.3.035.2		Ultimate analysis
.252	Electrolytic gas liberation. Measurement of gas released	86	Determination of fat content. Ester value.
.253	Polarographic analysis	87	Saponification value. Determination of oxygen compounds
257	Electrometric titrations	.9	Determination of content of other substances. Determination of proteins, enzymes, vitamins etc.
.1	Potentiometric analysis. Determination of hydrogen ion concentration. pH value —541.132.3; 543.241; 631.415	.92	Oxidizability. Saturation. Explosiveness. Stability. Reactivity
.2	Standard electrodes. Quinhydrone. Calomel. Hydrogen. Oxygen. Glass etc. —541.135.5; 542.8; 621.3.035.2		Analysis by means of biological reactions
27	Sampling and analysis of gas, including air		Sensory reactions. Organoleptic testing.
271	Apparatus and technique in general		Characteristic smell, taste, texture —541.69
	Combined apparatus, trains Gas detection papers	546	INORGANIC CHEMISTRY
.272	Selective absorption of gases Determination of specific gaseous constituents. Absorption trains and units		Classification of compounds
273	Analysis by combustion methods		Most chemical compounds are to be considered as the result of an actual or hypothetical reaction of two oxides with each other, or of an oxide with a hydride. In this way, a chemical compound may be designated by the oxide or hydride radicals from which it is derived
274	Other methods for determination of gaseous constituents Gravimetric, titrimetric measurement of properties.		The chemical compound is denoted by means of the apostrophe. A binary compound is denoted by citing the number for the metal radical (cation), and adding the number for the acid radical (anion). In the second number, the digits 546 are replaced by the apostrophe. Thus:
275	Determination and properties of non-gaseous constituents in suspensions, aerosols, smokes etc. Water content, moisture. Solid content, dust. Grit etc. —533.275		546.561'131 Cupric chloride CuCl
.278	Titrimetric or gravimetric determination of gaseous decomposition products in analysis of non-gaseous substances		from 546.561 Monovalent copper
.279	Gasometric analysis. Volumetric measurement of gaseous decomposition products of substance analysed		546.131 Chlorides
			Chemical compounds containing several metallic radicals (cations) or acid radicals (anions) are denoted by citing the numerically highest of the numbers for the metals, and adding the numbers for the other metals and the numbers for the acids in reverse numerical order. Thus:
			546.623'32'226 Potassium aluminium sulphate
			from 546.623 Trivalent aluminium

546 (cont'd) 546.32 Potassium
546.226 Sulphates
Similar chemical compounds with the same principal UDC
number may be distinguished by the -3 special auxiliaries listed
under 54, e.g.
546 33' 185-384.1 Sodium dihydrogen
orthophosphate
NaH₂PO₄
-384.2 Disodium hydrogen
orthophosphate
Na₂HPO₄
-384.3 Sodium
orthophosphate
Na₃PO₄
Simple oxides are always denoted by -31, e.g.
546.714-31 Manganese dioxide MnO₂
from
546.714 Tetravalent manganese
and
54-31 Oxides
Isotopes
The study of the entire group of isotopes of any element may be
denoted by adding the special auxiliary .027 listed under 54, e.g.
546.13.027 Isotopes of chlorine
Individual isotopes are denoted by adding an asterisk and the
mass number, e.g.
546.791*238 Uranium 238 ²³⁸U

Elements in the order of their atomic numbers			
Atomic number and symbol	UDC number	Atomic number and symbol	UDC number
1 H	546.11	53 I	546.15
2 He	546.291	54 Xe	546.295
3 Li	546.34	55 Cs	546.36
4 Be	546.45	56 Ba	546.431
5 B	546.27	57 La	546.654
6 C	546.26	58 Ce	546.655
7 N	546.17	59 Pr	546.656
8 O	546.21	60 Nd	546.657
9 F	546.16	61 Pm	546.658
10 Ne	546.292	62 Sm	546.659
11 Na	546.33	63 Eu	546.661
12 Mg	546.46	64 Gd	546.662
13 Al	546.62	65 Tb	546.663
14 Si	546.28	66 Dy	546.664
15 P	546.18	67 Ho	546.665
16 S	546.22	68 Er	546.666
17 Cl	546.13	69 Tm	546.667
18 Ar	546.293	70 Yb	546.668
19 K	546.32	71 Lu	546.669
20 Ca	546.41	72 Hf	546.832
21 Sc	546.63	73 Ta	546.883
22 Ti	546.821	74 W	546.78
23 V	546.881	75 Re	546.719
24 Cr	546.76	76 Os	546.94
25 Mn	546.711	77 Ir	546.93
26 Fe	546.72	78 Pt	546.92
27 Co	546.73	79 Au	546.59
28 Ni	546.74	80 Hg	546.49
29 Cu	546.56	81 Tl	546.683
30 Zn	546.47	82 Pb	546.815
31 Ga	546.681	83 Bi	546.87
32 Ge	546.289	84 Po	546.794
33 As	546.19	85 At	546.169
34 Se	546.23	86 Rn	546.296
35 Br	546.14	87 Fr	546.37
36 Kr	546.294	88 Ra	546.432
37 Rb	546.35	89 Ac	546.797
38 Sr	546.42	90 Th	546.841
39 Y	546.64	91 Pa	546.796
40 Zr	546.831	92 U	546.791
41 Nb	546.882	93 Np	546.799.3
42 Mo	546.77	94 Pu	546.799.4
43 Tc	546.718	95 Am	546.799.5
44 Ru	546.96	96 Cm	546.799.6
45 Rh	546.97	97 Bk	546.799.7
46 Pd	546.98	98 Cf	546.799.8
47 Ag	546.57	99 Es	546.799.9
48 Cd	546.48	100 Fm	546.799.90
49 In	546.682	101 Md	546.799.91
50 Sn	546.811	102 No	546.799.92
51 Sb	546.86	103 Lw	546.799.93
52 Te	546.24	104	546.833
		105	546.884

Elements in the alphabetic order of their symbols				546.135 (cont'd)	
Atomic number and symbol	UDC number	Atomic number and symbol	UDC number		
89 Ac	546.797	25 Mn	546.711	.136	546.135-32 Chloric acid HClO_3
47 Ag	546.57	42 Mo	546.77		Hypothetical derivatives of hexavalent chlorine
13 Al	546.62	7 N	546.17	.137	Derivatives of heptavalent chlorine.
95 Am	546.799.5	11 Na	546.33		Perchlorates
18 Ar	546.293	41 Nb	546.882	.14	546.137-32 Perchloric acid HClO_4
33 As	546.19	60 Nd	546.657	.15	Bromine Br
85 At	546.169	10 Ne	546.292		546.14 $\approx$ 546.13
79 Au	546.59	28 Ni	546.74	.16	Iodine I
5 B	546.27	102 No	546.799.92		546.15 $\approx$ 546.13
56 Ba	546.431	93 Np	546.799.3	.169	Fluorine F
4 Be	546.45	8 O	546.21	.17	546.16 $\approx$ 546.13 except:
83 Bi	546.87	76 Os	546.94	.171	Astatine At
97 Bk	546.799.7	15 P	546.18	.1	546.169 $\approx$ 546.13
35 Br	546.14	91 Pa	546.796	.5	Nitrogen N
6 C	546.26	82 Pb	546.815	.6	Hydrogen compounds of nitrogen
20 Ca	546.41	46 Pd	546.98	.8	Ammonia NH_3 and its metal derivatives.
48 Cd	546.48	61 Pm	546.658		Nitrides
58 Ce	546.655	84 Po	546.794	.172	—546.39
98 Cf	546.799.8	59 Pr	546.656	.5	Hydrazine N_2H_4 and its derivatives
17 Cl	546.13	78 Pt	546.92	.6	Azo derivatives
96 Cm	546.799.6	94 Pu	546.799.4	.173	Hydrazoic acid HN_3 and its derivatives.
27 Co	546.73	88 Ra	546.432		Azides
24 Cr	546.76	37 Rb	546.35		Hydroxylamine NH_2OH and its derivatives
55 Cs	546.36	75 Re	546.719	.174	Nitrous oxide N_2O and its derivatives
29 Cu	546.56	45 Rh	546.97	.175	Nitric oxide NO and its derivatives
66 Dy	546.664	86 Rn	546.296		Derivatives of nitrogen trioxide. Nitrites
68 Er	546.666	44 Ru	546.96	.176	546.173-31 Nitrogen trioxide N_2O_3
99 Es	546.799.9	16 S	546.22		-325 Nitrous acid HNO_2
63 Eu	546.661	51 Sb	546.86	.177	546.173'131 Nitrogen trichloride NCl_3
9 F	546.16	21 Sc	546.63	.18	Nitrogen dioxide NO_2 . Dinitrogen tetroxide
26 Fe	546.72	34 Se	546.23	.19	N_2O_4
100 Fm	546.799.90	14 Si	546.28	.21	Derivatives of nitrogen pentoxide. Nitrates
87 Fr	546.37	62 Sm	546.659	.212	546.175-31 Nitrogen pentoxide N_2O_5
31 Ga	546.681	50 Sn	546.811	.214	-323 Nitric acid HNO_3
64 Gd	546.662	38 Sr	546.42	.215	Aqua regia. Mixture of hydrochloric acid and
32 Ge	546.289	73 Ta	546.883	.216	nitric acid
1 H	546.11	65 Tb	546.663	.22	Pernitric acid HNO_4
2 He	546.291	43 Tc	546.718	.221	Phosphorus P
72 Hf	546.832	52 Te	546.24	.222	546.18 $\approx$ 546.17
80 Hg	546.49	90 Th	546.841	.223.1	Arsenic As
67 Ho	546.665	22 Ti	546.821	.2	546.19 $\approx$ 546.17
53 I	546.15	81 Tl	546.683	.21	Oxygen O
49 In	546.682	69 Tm	546.667	.212	Water H_2O
77 Ir	546.93	92 U	546.791	.214	546.212*2 Heavy water D_2O
19 K	546.32	23 V	546.881	.215	Ozone O_3
36 Kr	546.294	74 W	546.78	.216	Hydrogen peroxide H_2O_2
57 La	546.654	54 Xe	546.295	.22	Derivatives of hexavalent oxygen
3 Li	546.34	39 Y	546.64	.221	Sulphur S
71 Lu	546.669	70 Yb	546.668	.222	Hydrogen sulphide and its derivatives.
103 Lw	546.799.93	30 Zn	546.47	.223	Sulphides
101 Md	546.799.91	40 Zr	546.831	.224	Hydrogen persulphides. Polysulphides
12 Mg	546.46			.225	Derivatives of hypothetical monovalent
				.226	sulphur oxide. Sulphur suboxide S_2O
				.227	Derivatives of hypothetical divalent sulphur
				.228	oxide. Sulphur monoxide SO . Thiosulphates
				.23	546.223.2-325 Thiosulphurous acid
				.24	$\text{H}_2\text{S}_2\text{O}_2$
				.25	Derivatives of trivalent sulphur oxide
					546.223.3-31 Sulphur sesquioxide S_2O_3
					Derivatives of tetravalent sulphur. Sulphites
					546.224-31 Sulphur dioxide SO_2
					-325 Sulphurous acid H_2SO_3
					Mixed compounds of tetravalent and
					hexavalent sulphur
					Sulphur trioxide SO_3 and its derivatives
					Sulphates
					546.226-31 Sulphur trioxide SO_3
					-324 Pyrosulphuric acid
					$\text{H}_2\text{S}_2\text{O}_7$
					-325 Sulphuric acid H_2SO_4
					Persulphuric acid $\text{H}_2\text{S}_2\text{O}_8$ and its
					derivatives
					Polythionic acids
					Selenium Se
					546.23 $\approx$ 546.22
					Tellurium Te
					546.24 $\approx$ 546.22
					Non-metals of the third and fourth groups in
					general

546.26	Carbon C	546.32 (cont'd)	546.32'284'161 Potassium fluorosilicate K_2SiF_6
	546.26-162 Graphite. Diamond		
	—549.21	.33	Sodium Na
261	Hydrogen compounds of carbon and their derivatives. Carbides		546.33 $\approx$ 546.32, e.g.
.262	Lower oxides of carbon and their derivatives		546.33'131 Sodium chloride NaCl. Table salt
.3	Divalent carbon and its derivatives		—549.451.1; 553.631; 661.833
	546.262.3-31 Carbon monoxide CO		'273 Sodium tetraborate
.264	Tetravalent carbon. Carbonates		$Na_2B_4O_7$. Borax
	546.264-31 Carbon dioxide CO_2	.34	Lithium Li
.265	Compounds of carbon with sulphur, selenium, tellurium and their derivatives, including those containing oxygen and halogens	.35	546.34 $\approx$ 546.32
	Carbon disulphide CS_2	.36	Rubidium Rb
.14	Cyanogen $N \equiv C-C \equiv N$	.37	546.35 $\approx$ 546.32
226	—547.491	.39	Caesium Cs
.267	Hydrocyanic acid HCN and its derivatives. Cyanides	.41	546.36 $\approx$ 546.32
.268.1	Cyanic acid $N \equiv C-OH$ and its derivatives. Cyanates	.42	Francium Fr
.2	isoCyanic acid $O=C=NH$ and its derivatives isoCyanates	.431	546.37 $\approx$ 546.32
.3	Fulminic acid $C \equiv N-OH$	.432	Ammonium radical
.5	Thiocyanic acid $N \equiv C-SH$ and its derivatives	.441	546.39 $\approx$ 546.32
.6	isoThiocyanic acid $S=C=NH$ and its derivatives	.442	Calcium Ca
.27	Boron B	.443	Strontium Sr
.271	Boron hydrides and their derivatives	.45	Barium Ba
.272	Boranes. Borides	.46	Radium Ra
.273	Boron monoxide BO	.47	546.432'223 Radium 223 ^{223}Ra
	Trivalent boron and its derivatives. Borates	.48	546.432.027 Radium isotopes generally
	546.273-31 Boron trioxide B_2O_3	.49	Beryllium and magnesium group in general
	-324 Tetraboric acid $H_2B_4O_7$	.491	Alkaline earth metals in general
	-325 Boric acid H_3BO_3 . Boracic	.492	Zinc, cadmium and mercury group in general
	546 273'131 Boron trichloride BCl_3	.56	Beryllium Be
.28	Silicon Si	.561	Magnesium Mg
.281	Silicon hydride and its derivatives. Silicides	.562	Zinc Zn
	546.281'261 Silicon carbide SiC	.57	Cadmium Cd
284	Silicic anhydride and its derivatives. Silicates	.571	Mercury Hg
	546 284-31 Silicon dioxide SiO_2	.572	Monovalent mercury. Mercurous compounds
	-325 Silicic acid H_2SiO_3	.59	Divalent mercury. Mercuric compounds
	546 284'161 Silicon tetrafluoride SiF_4	.591	Copper Cu
	'161-32 Fluorosilicic acid H_2SiF_6	.593	Monovalent copper. Cuprous compounds
286	Derivatives of hexavalent silicon	.62	Divalent copper. Cupric compounds
.287	Organosilicon compounds. Silico-oxalic acid $HOOSi-SiOOH$	.623	Silver Ag
	—547.1'128		Monovalent silver
.289	Germanium Ge		Divalent silver
	546.289 $\approx$ 546.28		Gold Au
.29	Zerovalent elements		Monovalent gold
.291	Helium He		Trivalent gold
.292	Neon Ne	.63	Aluminium Al
.293	Argon Ar	.633	Trivalent aluminium
.294	Krypton Kr	.64	546.623'33 Sodium aluminate $NaAlO_2$
.295	Xenon Xe	.643	'39'226 Aluminium ammonium
.296	Radon Rn	.65	sulphate
.3	Metals in general		$NH_4Al(SO_4)_2 \cdot 12H_2O$.
.32	Potassium K	.651	Ammonium alum
	546.32-31 Potassium oxide K_2O	.654	
	-36 Potassium hydroxide KOH	.655	Scandium Sc
	-39 Potassium peroxide K_2O_2	.3	Trivalent scandium
	546.32'131 Potassium chloride KCl	.4	Yttrium Y
	'135 Potassium chlorate $KClO_3$	.656	Trivalent yttrium
	'173 Potassium nitrite KNO_2	.657	Rare earths in general
	'175 Potassium nitrate KNO_3	.658	546.651/.659 each $\approx$ 546.655
	'185 Potassium phosphates	.659	Cerium group in general
	'221 Potassium sulphide K_2S	.66	Lanthanum La
	'226 Potassium sulphate K_2SO_4		Cerium Ce
	'226-384.1 Potassium hydrogen sulphate $KHSO_4$	.661	Trivalent cerium
	'264 Potassium carbonate K_2CO_3	.662	Tetravalent cerium
	'264-384.1 Potassium hydrogen carbonate $KHCO_3$	.663	Praseodymium Pr
	'267 Potassium cyanide KCN	.664	Neodymium Nd
	'273 Potassium borate $K_2B_4O_7$	.665	Promethium Pm
	'273-39 Potassium perborate $KBO_2 \cdot H_2O_2 \cdot 3H_2O$	.666	Samarium Sm
	'284 Potassium silicates $K_2O \cdot xSiO_2$	.667	Yttrium group in general
		.668	546.661/.669 each $\approx$ 546.655
		.669	Europium Eu
		.681	Gadolinium Gd
		.682	Terbium Tb
			Dysprosium Dy
			Holmium Ho
			Erbium Er
			Thulium Tm
			Ytterbium Yb
			Lutetium Lu
			Gallium Ga
			546.681 $\approx$ 546.683
			Indium In

546.682 (cont'd)	546.682 $\approx$ 546.683	546.83	Zirconium. Hafnium
.683	Thallium Tl	.831	Zirconium Zr
.1	Monovalent thallium		546.831 $\approx$ 546.82
.3	Trivalent thallium	.832	Hafnium Hf
.711	Manganese Mn		546.832 $\approx$ 546.82
.712	Divalent manganese	.833	Element with atomic number 104
.713	Trivalent manganese	.841	Thorium Th
.714	Tetravalent manganese		546.841 $\approx$ 546.82
.716	Hexavalent manganese. Manganates	.86	Antimony Sb
.717	Heptavalent manganese. Permanganates		546.86 $\approx$ 546.17, e.g.
	546.717'32 Potassium permanganate		546.861 Antimony hydrides
	KMnO ₄		.863 Trivalent antimony and its derivatives
.718	Technetium Tc		.865 Pentavalent antimony and its derivatives
.719	Rhenium Re		
	546.719.2/.7 $\approx$ 546.712/.717	.87	Bismuth Bi
.72	Iron Fe		546.87 $\approx$ 546.17
.722	Divalent iron. Ferrous compounds	.881	Vanadium V
.723	Trivalent iron. Ferric compounds	.2	Divalent vanadium
.725	Carbonyl compounds of iron	.3	Trivalent vanadium
.726	Hexavalent iron. Ferrates	.4	Tetravalent vanadium
.73	Cobalt Co	.5	Pentavalent vanadium
.732	Divalent cobalt. Cobaltous compounds	.882	Niobium Nb
.733	Trivalent cobalt. Cobaltic compounds		546.882 $\approx$ 546.881
.735	Carbonyl compounds of cobalt	.883	Tantalum Ta
.74	Nickel Ni		546.883 $\approx$ 546.881
.742	Divalent nickel	.884	Element with atomic number 105
.743	Trivalent nickel	.91	Platinum group in general
.745	Carbonyl compounds of nickel	.92	Platinum Pt
.76	Chromium Cr	.921	Monovalent platinum
.762	Divalent chromium. Chromous compounds	.922	Divalent platinum
.763	Trivalent chromium. Chromic compounds	.923	Trivalent platinum
.765	Carbonyl compounds of chromium	.924	Tetravalent platinum
.766	Hexavalent chromium. Chromates	.926	Hexavalent platinum
.77	Molybdenum Mo	.93	Iridium Ir
.772	Divalent molybdenum		546.93 $\approx$ 546.92
.773	Trivalent molybdenum	.94	Osmium Os
.774	Tetravalent molybdenum		546.94 $\approx$ 546.92
.775	Pentavalent molybdenum	.95	Ruthenium group in general
.776	Hexavalent molybdenum	.96	Ruthenium Ru
.78	Tungsten W		546.96 $\approx$ 546.92
	546.78 $\approx$ 546.77	.97	Rhodium Rh
.79	Actinides in general		546.97 $\approx$ 546.92
	—539.16; 541.28	.98	Palladium
.791	Uranium U		546.98 $\approx$ 546.92
	546.791*234 Uranium 234 ²³⁴ U	.99	Indefinable elements. Doubtful elements
	*235 Uranium 235 ²³⁵ U		
	*238 Uranium 238 ²³⁸ U		
	546.791.027 Uranium isotopes generally	547	ORGANIC CHEMISTRY
	546.791.2/.6 $\approx$ 546.772/.776		<i>Further details may be denoted:</i>
.794	Polonium Po		(a) by apostrophe
	546.794 $\approx$ 546.22		'11/'19 $\approx$ 546.1/.9
.796	Protactinium Pa		'2/'8 $\approx$ 547.2/.8
.797	Actinium Ac		(b) by hyphen auxiliaries -1/-4 listed under 54
.799	Transuranic actinides		(c) by point-nought auxiliaries .01/ .08 listed under 54
.3	Neptunium Np		(d) by the condensed formula added directly to 547, e.g. 547CH ₄ O Methanol (methyl alcohol). Cf. 547.261
.4	Plutonium Pu	.1	Organic chemistry in general
.5	Americum Am		547.1'128 Silicones (from 546 28)
.6	Curium Cm	.12	Carbon bonds. Arrangement of carbon atoms in the molecule
.7	Berkelium Bk	.14	Comparison of cyclic and acyclic compounds
.8	Californium Cf	.2	Acyclic compounds in general
.9	Einsteinium Es	.21	Saturated hydrocarbons. Alkanes (paraffins)
.90	Fermium Fm		C _n H _{2n+2}
.91	Mendelevium Md		<i>Details by special auxiliaries at 54, e.g.</i>
.92	Nobelium No		547.21.024. Alkyl groups
.93	Lawrencium Lw		
.81	Tin Lead	.211	Methane CH ₄
.811	Tin, Sn, in general	.212	Ethane C ₂ H ₆
.812	Divalent tin. Stannous compounds	.213	Propane C ₃ H ₈
.814	Tetravalent tin. Stannic compounds	.214	Butane C ₄ H ₁₀
.815	Lead, Pb, in general	.215	Pentane C ₅ H ₁₂
.816	Monovalent lead. Plumbous compounds	.216	Hexane C ₆ H ₁₄
.817	Divalent lead. Plumbic compounds	.217.1	Heptane C ₇ H ₁₆
.818	Trivalent lead	.2	Octane C ₈ H ₁₈
.819	Tetravalent lead	.3	Nonane C ₉ H ₂₀
	546.819'817 Lead orthoplumbate Pb ₃ O ₄	.4	Decane C ₁₀ H ₂₂
.82	Titanium group	.5	Undecane C ₁₁ H ₂₄
.821	Titanium, Ti, in general		
.822	Divalent titanium		
.823	Trivalent titanium		
.824	Tetravalent titanium. Titanates		

547 217.6	Dodecane C ₁₂ H ₂₆	547 269	Monosubstituted derivatives of saturated hydrocarbons, containing sulphur, selenium or tellurium bound directly to the carbon
7	Tridecane C ₁₃ H ₂₈		
8	Tetradecane C ₁₄ H ₃₀		
9	Pentadecane C ₁₅ H ₃₂	1	Mercaptans C _n H _{2n+1} SH
218.1	Hexadecane C ₁₆ H ₃₄		547.269.1 ≈ 547.26
.2	Heptadecane C ₁₇ H ₃₆	3	Sulphonic acids, Sulphonic acids substituted in the -SO ₃ H group
.3	Octadecane C ₁₈ H ₃₈		
4	Nonadecane C ₁₉ H ₄₀	27	Ethers of the saturated hydrocarbons.
.5	Eicosane C ₂₀ H ₄₂		Analogues of ethers containing sulphur, selenium or tellurium
6	Heneicosane C ₂₁ H ₄₄		547.27 ≈ 547.26, e.g.
7	Docosane C ₂₂ H ₄₆		547.271 Dimethyl ethers (CH ₃) ₂ O
.8	Tricosane C ₂₃ H ₄₈		.272 Ethyl ethers
9	Tetracosane C ₂₄ H ₅₀		.279 Derivatives of ethers containing sulphur, selenium or tellurium
219	Saturated hydrocarbons with 25 or more carbon atoms, e.g. hexacontane C ₆₀ H ₁₂₂		
.22	Monohalogeno derivatives of saturated hydrocarbons	28	Saturated monoaldehydes and monoketones.
.221	Fluoro derivatives		Analogues containing sulphur, selenium or tellurium
.222	Chloro derivatives	.281	Saturated monoaldehydes [C _n H _{2n} O]
.223	Bromo derivatives		547.281 ≈ 547.21, e.g.
.224	Alkyl iodides		547.281.1 Formaldehyde HCHO
.23	Monosubstituted derivatives of saturated hydrocarbons containing nitrogen directly linked to carbon		.2 Acetaldehyde CH ₃ CHO, and its polymers
			.21 Acetaldehyde
231	Nitroso derivatives		.22 Paraldehyde
	547.231 ≈ 547.21		.23 Metaldehyde
.232	Nitro derivatives	.283	Thioaldehydes. Selenoaldehydes.
	547.232 ≈ 547.21		Telluroaldehydes
.233	Amines	.284	Saturated monoketones
234	Hydrazines		547.284 ≈ 547.26, e.g.
.235	Other nitrogen derivatives containing two nitrogen atoms. Azo compounds. Diazo compounds, e.g. diazomethane CH ₂ N ₂		547.284.3 Propanone. Acetone
			CH ₃ COCH ₃
.236	Nitrogen derivatives containing three nitrogen atoms. Triazanes. Triazines	286	.4 Butanones. Ethyl methyl ketone
237	Derivatives with nitrogen groups containing four or more nitrogen atoms. Tetrazanes.		Thioketones. Selenoketones. Telluroketones
	Tetrazenes	288	Condensation products of aldehydes and ketones with ammonia, hydrazine etc.
238	Hydroxylamines	.1	Ammonium compounds
239	Nitriles (cyanides). Isonitriles (isocyanides)	.15	Hexamine (hexamethylenetetramine)
.24	Monosubstituted derivatives of saturated hydrocarbons, containing non-metals other than oxygen, sulphur, selenium and tellurium directly linked to carbon	.2	Amino compounds
		.3	Hydrazine compounds. Hydrazones.
.25	Monosubstituted organometallic derivatives of saturated hydrocarbons		Aldazines. Ketazines. Semicarbazones
	547.25 is subdivided like 546 as far as the valency of the metal. Denote further details by special auxiliaries (see note at 547), e.g.	.4	Hydroxylamine compounds. Oximes
	547.254.6'114.1'212 C ₂ H ₅ MgBr	.29	Monobasic saturated carboxylic acids [C _n H _{2n} O ₂]
	consisting of:		Formic acid HCOOH
	547.25 + digits 46 from 546 46	.291	Acetic acid CH ₃ COOH
	Magnesium	.292	Propionic acid CH ₃ CH ₂ COOH
	'114.1 from 546.141 Bromides	.293	Butyric acids CH ₃ (CH ₂) ₂ COOH
	'212 from 547.212 Ethane	.294	Pentonic acids (valeric acids)
26	Saturated monohydric alcohols [C _n H _{2n+1} OH]	.295.1	CH ₃ CH ₂) ₃ COOH
	547.26'11 Acid derivatives in general.		Hexoic acids. Caproic acid
	Esters	.2	CH ₃ (CH ₂) ₄ COOH
	'127 Esters of acids containing boron	4	Octoic acids. Caprylic acid
	('127 from 546.27)		CH ₃ (CH ₂) ₆ COOH
.261	Methanol (methyl alcohol) CH ₃ OH	.5	Nonoic acids. Pelargonic acid
	Cf. example (d) at 547		CH ₃ (CH ₂) ₇ COOH
.262	Ethanol (ethyl alcohol) C ₂ H ₅ OH	.6	Decoic acids. Capric acid
.263	Propanols (propyl alcohols) C ₃ H ₇ OH		CH ₃ (CH ₂) ₈ COOH
.264	Butanols (butyl alcohols) C ₄ H ₉ OH	.71	Undecoic acids CH ₃ (CH ₂) ₉ COOH
.265	Pentanois (pentyl alcohols, amyl alcohols) C ₅ H ₁₁ OH	.72	Dodecoic acids. Lauric acid
			CH ₃ (CH ₂) ₁₀ COOH
.266	Hexanols (hexyl alcohols) C ₆ H ₁₃ OH	8	Tetradecoic acids. Myristic acid
.267	Heptanols (heptyl alcohols) C ₇ H ₁₅ OH		CH ₃ (CH ₂) ₁₂
.268	Octanols (octyl alcohols) and higher alcohols	.92	Hexadecoic acids. Palmitic acid
			CH ₃ (CH ₂) ₁₄ COOH
.11	Octanols (octyl alcohols) C ₈ H ₁₇ OH.	.94	Octadecoic acids. Stearic acid
	Caprylic alcohol		CH ₃ (CH ₂) ₁₆ COOH
.19	Hexadecanols (hexadecyl alcohols) C ₁₆ H ₃₃ OH. Cetyl (palmityl) alcohol	.96	Eicosoic acids. Arachidic acid
			CH ₃ (CH ₂) ₁₈ COOH
.31	Hexacosanols C ₂₆ H ₅₃ OH. Ceryl alcohol.	.296	Acids with more than 20 carbon atoms
	Cerotin		Decosoic acids. Behenic acid
		.12	CH ₃ (CH ₂) ₂₀ COOH
		.14	Tetracosic acids. Lignoceric acid
			CH ₃ (CH ₂) ₂₂ COOH
		.16	Hexacosic acids. Cerotic acid
			CH ₃ (CH ₂) ₂₄ COOH
		.297	Halides of acid radicals. Acyl halides
		.298	Carboxylic acids which are substituted in the carboxyl group by ammonia, hydrazine etc.
		.2	Iminoethers

547.298.3	Amidohalides. Imidohalides	547.379	Sulphur, selenium and tellurium analogues of unsaturated ethers
.3	Acyclic unsaturated hydrocarbons and their monosubstituted derivatives	.38	Unsaturated monoaldehydes and monoketones. Ketenes
.31	Unsaturated hydrocarbons	.381	Aldehydes of the ethylene series. Acrolein. Crotonaldehyde. Citronellal
.311	Double bond in general	-	547.381 $\approx$ 547.21
.312	Triple bond in general	.382	Less saturated aldehydes. Citral
.313	Hydrocarbons of the series C_nH_{2n} . Olefins (alkenes)	.383	Unsaturated thioaldehydes, selenoaldehydes, telluroaldehydes
	547.313 $\approx$ 547.21, e.g.	.384	Unsaturated ketones of the ethylene series. Vinylalkyl ketones. Allyl acetone
	547.313.2 Ethylene C_2H_4	.385	Less saturated ketones. Phorone
	.3 Propene (propylene) C_3H_6	.386	Unsaturated thioketones, selenoketones, telluroketones
	.4 Butenes (butylenes) C_4H_8	.387	Ketenes. Dimethylketene
	.5 Pentenes (amylenes) C_5H_{10}	.388	Condensation products of unsaturated aldehydes and ketones with ammonia, hydrazine etc. Hydrazones. Ketazines
.314	Hydrocarbons of the series C_nH_{2n-2} with a triple bond	.39	Mobasic unsaturated carboxylic acids
	547.314 $\approx$ 547.21, e.g.	.391	Acids of the series $C_nH_{2n-2}O_2$ in general
	547.314.2 Acetylene C_2H_2	.1	Acrylic acid $C_3H_4O_2$
.315	Hydrocarbons of the series C_nH_{2n-2} with two double bonds	.2	Vinylacetic acid $C_4H_6O_2$
.1	Hydrocarbons with cumulative double bonds. Allene	3	Crotonic acid. Methacrylic acid $C_4H_6O_2$
.2	Hydrocarbons with conjugated double bonds. Divinyl. Piperylene. Isoprene	.4	$C_5H_8O_2$ acids (e.g. angelic acid, tiglic acid)
.316	Hydrocarbons of the series C_nH_{2n-4}	.92	Undecylenic acids $C_{11}H_{20}O_2$
.317	Hydrocarbons of the series C_nH_{2n-6}	.392.4	Oleic acid. Elaidinic acid $C_{18}H_{34}O_2$
.318	Less saturated hydrocarbons	.612	Erucic acid. Brassidinic acid $C_{22}H_{42}O_2$
.32	Monohalogeno derivatives of unsaturated hydrocarbons	.393	Acids of the propiolic acid series [$C_nH_{2n-4}O_2$]
.321	Fluoro derivatives	547.393 $\approx$ 547.29, e.g.	547.393.4 Tetrollic acid $C_4H_6O_2$
.322	Chloroderivatives	.52	Sorbic acid $C_6H_8O_2$
.323	Bromo derivatives	394/.395	Unsaturated acids with two double bonds
.324	Iodo derivatives	547.394/.395 $\approx$ 547.391/.392, e.g.	547.395.4 Linoleic acid $C_{18}H_{32}O_2$
.33	Monosubstituted derivatives of unsaturated hydrocarbons containing nitrogen directly linked to carbon	396	$C_nH_{2n-6}O_2$ acids. Linolenic acid $C_{18}H_{30}O_2$
.331	Nitroso derivatives	.398	Unsaturated acids of the type of $C_{18}H_{30}O_2$, with derivatives of ammonia, hydrazine etc. substituted in the carbonyl group
.332	Nitro derivatives	547.398 $\approx$ 547.298, e.g.	547.398.2 Iminoethers
.333	Amines	399	Sulphur, selenium and tellurium analogues
.334	Hydrazines	.4	Polysubstituted acyclic compounds
.335	Other nitrogen derivatives with two nitrogen atoms	.41	Compounds not containing oxygen directly linked to carbon
.336	Nitrogen derivatives with three nitrogen atoms	.411	Polyhalogeno compounds in general
.337	Nitrogen derivatives with four or more nitrogen atoms	.412	Polyhalogeno derivatives of saturated hydrocarbons
.338	Hydroxylamines	.1	Polyhalogeno derivatives of methane
.339	Nitriles (cyanides). Isonitriles (isocyanides)	11	Dihalogeno derivatives CH_2Hlg_2
.34	Monosubstituted derivatives of unsaturated hydrocarbons, containing non-metals other than oxygen, sulphur, selenium and tellurium directly linked to carbon	.12	Trihalogeno derivatives $CHHlg_3$
35	Monosubstituted organometallic derivatives of unsaturated hydrocarbons	.122	Trifluoromethane CHF_3
36	Unsaturated monohydric alcohols	.123	Chloroform $CHCl_3$
361	Derivatives of the ethylene series	.124	Bromoform $CHBr_3$
	547.361 $\approx$ 547.21, e.g.	.125	Iodoform CHI_3
	547.361.2 Vinyl alcohol C_2H_3OH	13	Tetrahalogeno derivatives $CHlg_4$
	.3 Allyl alcohol C_3H_5OH	132	Carbon tetrafluoride CF_4
	85 Phytol $C_{20}H_{39}OH$	.133	Carbon tetrachloride CCl_4
362	Derivatives of the acetylene series	.134	Carbon tetrabromide CBr_4
	547.362 $\approx$ 547.21	.135	Carbon tetraiodide CI_4
363	Derivatives of the series $C_nH_{2n-2}O$ containing no triple bonds	2	Dihalogeno derivatives of ethane and its homologues in general
.364	Derivatives of the series $C_nH_{2n-4}O$	.3	Compounds of the type of ethylidene dichloride and isopropylidene dichloride
.365	Derivatives of the series $C_nH_{2n-6}O$	.4	Compounds of the type of 1,2-dichloroethane. Ethylene chloride $C_2H_4Cl_2$
.366	Less saturated monohydric alcohols	5	Compounds of the type of 1,3-dichloropropane and 1,4-dichlorobutane
.367	Sulphur-containing analogues of the unsaturated alcohols. Unsaturated mercaptans (thiols)	.6	Trihalogeno derivatives of ethane and its homologues
.368	Other sulphur-containing unsaturated compounds. Unsaturated sulphonic and sulphinic acids	.7	Polyhalogeno derivatives of ethane and its homologues
.369	Selenium and tellurium analogues	.9	Completely halogenated derivatives of hydrocarbons
.37	Unsaturated ethers	413	Polyhalogeno derivatives of unsaturated hydrocarbons
.371	Ethers with one double bond		
.372	Ethers with one triple bond		
.373	Ethers with two double bonds		
.374	Less saturated ethers		

547 413.1	Dihalogeno derivatives of ethylene and its homologues	547 448	Aldehyde and ketone compounds containing phosphorus, arsenic etc
2	Dihalogeno derivatives of acetylene and its homologues and of the less saturated hydrocarbons	449	Compounds containing a metal directly linked to carbon
.4	Trihalogeno derivatives of unsaturated hydrocarbons. Trihalogeno derivatives of ethylene, e.g. trichloroethylene	.45	Hydroxyaldehydes. Hydroxyketones
.5	Perhalogeno derivatives of unsaturated hydrocarbons. Perhalogeno derivatives of ethylene	.451	Hydroxyaldehydes and hydroxyketones other than true sugars. Glycolaldehyde $C_2H_4O_2$. Aldols $C_4H_8O_2$
414	Polynitro compounds and nitrosonitro compounds	.452	Derivatives of mercaptoaldehydes and mercaptoketones
415	Polyamines	.453	Sulphonic acids of aldehydes and ketones
416	Halogeno derivatives and nitro derivatives of amines	.454	Carbohydrates in general
417	Polysubstituted hydrazino, diazo, azido compounds. BisTriazoethane	.455	Simple sugars (monosaccharides)
418	Polysubstituted derivatives of hydroxylamine	3	Trioses. Glyceraldehyde $C_3H_6O_3$
	Alkylamine diisotrimines	4	Tetroses $C_4H_8O_4$ Erythrose. Threose
	Nitro-nitroso-hydroxylamino alkanes	5	Pentoses $C_5H_{10}O_5$ Ribose Arabinose
.419	Other acyclic polysubstituted compounds not containing oxygen directly linked to carbon	.6	Xylose. Rhamnose $C_5H_8O_5CH_3$
42	Polyhydric alcohols and mercaptans and their derivatives	.623	Hexoses $C_6H_{12}O_6$
421	Hypothetical glycols (dihydric alcohols) and their derivatives, in general	624	Glucose
.422	Ethylene glycol (ethanediol) and its homologues	.635	Mannose
.22	Ethylene glycol (ethanediol) $C_2H_6O_2$	.7	Sorbose
	547 422.22-31 Ethylene oxide	.8	Heptoses
.23	Propylene glycol $C_3H_8O_2$	.9	toses
.423	Unsaturated α -glycols	.458	Higher monosaccharides
.424	Glycols in which the -OH groups are attached to two separated carbon atoms	.2	Polysaccharides
425	Sulphur analogues of the dihydric alcohols	.3	Disaccharides Sucrose (Saccharose Cane sugar). Maltose. Trehalose
.426	Trihydric alcohols and their derivatives	.41	Trisaccharides. Dextrose
.1	Glycerol (glycerine) $C_3H_8O_3$	.5	Tetrasaccharides
2	Ethers and esters of glycerol	6	Non-sugar polysaccharides
.24	Esters of inorganic acids, e.g.	.61	Starch and other reserve substances
	547.426.24'117 Nitroglycerine	.63	Starch
	$C_3H_5(ONO_2)_3$	.68	Glycogen
427	Higher polyhydric alcohols	7	Dextrin
.1	Tetrahydric alcohols. Erythritol $C_4H_{10}O_4$	8	Natural gums and mucilages
2	Pentahydric alcohols. Adonitol $C_5H_{12}O_5$	81	Cellulose. Other carbohydrates of cell membranes
3	Hexahydric alcohols. Mannitol $C_6H_{14}O_6$	82	Cellulose Hydrated celluloses
43	Alcohols containing elements other than oxygen, sulphur etc., directly linked to carbon	83	Cellulose esters Nitrocelluloses
431	Compounds containing both halogens and hydroxyl groups, and their derivatives	.84	Acetylcelluloses. Viscose Viscoid
.433	Nitrosoalcohols. Alkylene nitrosites. Alkylene nitrosates. Derivatives of trimethylethylene. Derivatives of trimethylbromoethylene. Derivatives of tetramethylethylene	.85	Amyloids
434	Nitroalcohols	.87	Lignocellulose. Other crude natural celluloses
435	Aminoalcohols. Ethers and esters of aminoalcohols	.88	Tunicin Mannosocellulose
436	Amino derivatives of mercaptans, of sulphonic acids. Taurine $C_2H_5SO_3$	.46	Hemicelluloses. Lichenin
437	Hydroxyamino, hydrazino, diazo and azido compounds of alcohols.	.461	Pectin
438	Diazomethane-disulphonic acid	.2	Polycarboxylic acids
	Alcohols containing non-metals other than those mentioned above, directly linked to carbon	.3	Saturated dicarboxylic acids in general
.439	Organometallic derivatives of alcohols	.4	Oxalic acid Oxalates. Oxamide
44	Polyaldehydes. Polyketones. Polycarbonyl compounds	.5	1,3-dicarboxylic acids. Malonic acid and its salts. Malonic diethyl ester
.441	Dialdehydes. Glyoxal $C_2H_2O_2$	.6	1,4-dicarboxylic acids. Succinic acid and its derivatives $C_4H_4O_2$
442	Diketones. Diacetyl $C_4H_6O_2$. Acetylacetone $C_4H_8O_2$	.7	Glutaric acid and its homologues
.443	Polyketones	.8	Adipic acid and its homologues
.444	Ketoaldehydes. Methylglyoxal $C_3H_4O_2$	.462	Pimelic acid and its homologues
.445	Diketenes. Ketoketenes. Acetylketenes	.3	Dicarboxylic acids with carboxyl groups separated by more than five carbon atoms.
.446	Halogeno derivatives of aldehydes and ketones. Chloral CCl_3CHO . Chloral hydrate $CCl_3CH(OH)_2$	.463	Suberic acid. Azelaic acid. Sebacic acid
.447	Carbonyl compounds. Amino derivatives. Muscarine $C_8H_{19}NO_3$	.464	Unsaturated dicarboxylic acids
		.465	Fumaric acid. Itaconic acid
		.466	Polycarboxylic acids. Tricarboxylic acids. Tetracarboxylic acids
		.1	Halogeno derivatives of carboxylic acids. Chloroacetic acid
		.22	Nitro and nitroso derivatives of carboxylic acids
		.23	Amino derivatives of carboxylic acids. Amino acids
		.24	Amino acid condensations and linkages in general. Betaines. Lactams. Peptide links
		.25	Glycocol. Glycine and its derivatives
		.26	Alanine
		.27	α -Aminobutyric acid
		.3	α -Aminovaleric acid. Valine
			α -Aminocaproic acid. Leucine. Isoleucine
			Higher α -amino acids
			β , γ , δ -monoamino fatty acids. Other monoamino fatty acids. β -aminopropionic acid. γ -aminobutyric acid. δ -aminovaleric acid

547.541.521	Sulphonamides $\text{SO}_2(\text{NH}_2)_2$	547.564.8	Diazo derivatives phenol
522	Sulphohalogenamides	.9	Phenolhydrazines
6	Arylsulphonic acids containing	565	Polyhydric phenols
	non-substituted $-\text{SO}_3\text{H}$ groups adjacent to	.2	Dihydric phenols. Pyrocatechol
	substituted $-\text{SO}_3\text{H}$ groups, except metal		(o-dihydroxybenzene) Guaiacol. Veratrol.
	sulphonates and sulphonic acid esters		Cresol. Resorcinol (1,3-dihydroxybenzene).
.8	Selenium analogues		Styphnic acid. Orcinol. Hydroquinone
.9	Tellurium analogues		(1,4-dihydroxybenzene)
.542	Sulphinic acids	3	Trihydric phenols. Pyrogallol. Phloroglucinol
543	Thiosulphonic acids	566	Phenols with unsaturated sidechains
544	Sulphoxides. Sulphones	.1	Anethole
545	Nitro derivatives of benzene hydrocarbons	.2	Eugenol. Isoeugenol. Safrole. Isosafrole
	Nitroso compounds	.3	Myristicin
546	Nitro compounds with $-\text{NO}_2$ groups in the	.567	Quinones. Quinhydrone. Thymoquinone
	nucleus. Nitrobenzene. Dinitrobenzene.	568.1	Aromatic alcohols. Benzyl alcohol. Cinnamyl
	Nitrotoluenes		alcohol. Methylphenyl carbinol
547	Nitro groups with $-\text{NO}_2$ groups in the		Phenylethylene glycol
	sidechain. Phenylnitromethane	.5	Phenol alcohols. Oxybenzylalcohol
	Phenylnitroethane etc.	569	Aromatic derivatives of hydrogen sulphide.
548	Halogenated nitro compounds.		Monothiophenols. Mercaptans
	Chloronitrobenzenes	57	Aromatic carbonyl compounds and their
.549.1	Nitrosulphonic acids		derivatives
.549.2	Halogenosulphonic acids	.571	Aromatic aldehydes. Benzaldehyde
.55	Non-oxygenated derivatives of benzene		Cuminaldehyde. Terephthalaldehyde.
	hydrocarbons		Cinnamaldehyde
.551	Aniline and its derivatives	.572	Aromatic ketones. Acetophenone
1	Aniline	.573	Aromatic thioaldehydes. Aliphatic-aromatic
.2	Alkylanilines. Diphenylamine. Triphenylamine		thioketones. Thiobenzaldehyde.
.52	Aniline sulphonic acids. Sulphanilamides.		Thioacetophenone
	Sulphonamides	.574	Condensation products of aromatic
.552	Homologues of aniline		aldehydes. Oximes. Hydrazones
.1	Toluidine	.575	Compounds containing both carbonyl and
.2	Xylidine		hydroxyl groups, in general
3	PseudoCumidine	.576	Hydroxyaldehydes. Salicylaldehyde
553	Polyamines with amino groups attached to		Anisaldehyde. Vanillin. Piperonal
	the nucleus	577	Hydroxyketones. Hydroxyacetophenone.
1	Ortho-Phenylenediamine. Toluenediamines		Dihydroxyacetophenone. Acetopyrocatechol
.554	Aromatic amines with amino groups in	578	Aldehydealcohols. Ketoalcohols. Phenyl-lactic
	aliphatic linkage		aldehyde. Phenyl tetrose
555	Hydroxylamine derivatives of aromatic	.579	Sulphur, selenium and tellurium analogues
	hydrocarbons. Phenylhydroxylamine	58	Mononuclear aromatic acids
.556	Azoxy, azo and hydrazo compounds in	581	Monobasic acids with carboxyl group directly
	general		attached to the nucleus. Benzoic acid
2	Azoxy compounds. Azoxybenzene	582	Acid derivatives with substituents in the
.3	Azo compounds		carboxyl group. Benzoyl chloride. Anhydrides.
.31	Azobenzene		Esters
33	Aminoazo compounds. Azo dyes. Aniline	.583	Derivatives formed by substitution in the
	yellow. Helianthin. Chrysoidines		benzene nucleus
	, —667.28	.1	Halogeno derivatives. Chlorbenzoic acids
.34	Oxyazo compounds. Sudan dyes	.2	Sulphobenzoic acid. Saccharin
.4	Hydrazo compounds	4	Nitroso derivatives. Nitro derivatives
.7	Dia compounds	.5	Amino derivatives. Anthranilic acid
.8	Hydrazines. Phenylhydrazine	.584	Dicarboxylic acids with carboxyl groups
9	Aliphatic-aromatic azo compounds.		linked to the nucleus. Phthalic acid. Phthalic
	Hydrazone and formacyl compounds.		anhydride. Isophthalic acid. Terephthalic acid.
	Osazones		Phthalimide
557	Compounds whose molecule contains more	585	Acids with three or more carboxyl groups in
	than two nitrogen atoms directly linked		the benzene nucleus. Benzenetricarboxylic
1	Diazoamino compounds. Diazoaminobenzene		acids. Benzenetetracarboxylic acids.
558	Compounds of the aromatic hydrocarbon		Benzenepentacarboxylic acids. Mellitic acid
	radical with phosphorus, arsenic, antimony,	586.1	Acids with one or more of the carboxyl
	bismuth, boron, silicon etc.		groups in saturated sidechains, in general
.559	Metal compounds	.2	Monobasic phenylaliphatic acids.
.56	Phenols. Aromatic alcohols		Phenylacetic acid. Phenylalanine
.562	Phenol (carbolic acid). Phenol ethers. Phenol	.3	Polybasic phenylaliphatic acids
	esters. Phenetole	.4	Acids with one or more of the carboxyl
.3	Halogeno derivatives		groups in unsaturated sidechains, in general
.563	Cresols. Other homologues of phenol with	.5	Monobasic acids with one double bond.
	saturated sidechains. Thymol		Atropic acid. Cinnamic acid
.564	Other substitution products of monohydric	.6	Monobasic acids with triple bonds
	phenols	.7	Dibasic acids
.1	Hydroxybenzenesulphonic acids.	.587	Phenol-carboxylic acids
	Phenolsulphonic acid	.1	Monohydroxy derivatives of monobasic
.2	Nitrosophenols		nuclear carboxylic acids. Salicylic acid. Salol.
.3	Nitrophenols. Picric acid. Dinitrocresols		Acetylsalicylic acid (aspirin). Thiosalicylic acid
.4	Aminophenols. Anisidine. Phenetidine.	.2	Polyhydroxy derivatives of monobasic nuclear
	Phenacetine		carboxylic acids. Vanillic acid. Gyrophoric
.5	Azoxyphenols		acid. Gallic acid. Tannin
.6	Azo derivatives of phenol	.3	Hydroxy derivatives of polybasic nuclear
.7	Hydrazo derivatives of phenol		carboxylic acids

547.587.4	Hydroxy derivatives of carboxylic acids with carboxyl groups in saturated sidechains.	547.654	Non-oxygenated naphthalene derivatives.
	Hydrocoumaric acids. Tyrosine	.655	Naphthylamine
.5	Hydroxy derivatives of carboxylic acids with carboxyl groups in unsaturated sidechains	.656	Hydroxy derivatives of naphthalene.
.51	Coumarin. Coumarinic acid. Coumaric acid.		Naphthaquinones. Naphthazarin
	Thiocoumarin	.657	Aldehydes and ketones of the naphthalene series
.52	Dihydroxycinnamic acids. Caffeic acid.		Acids of the naphthalene series. Napthoic acid. Naphthalenecarboxylic acids
	Umbelliferone	.659	Reduction products of naphthalene.
.53	Trihydroxycinnamic acids. Sinapinic acid.		Hydronapthoic acids
	Daphnetin. Aesculetin. Chrysotropic acid	.66	Other systems with two condensed nuclei
.54	Piperic acids. Hydropiperic acids	.661	Compounds with either one naphthalene nucleus and benzene nuclei, or several naphthalene nuclei
.588	Alcohol acids. Phenol-alcohol acids		Benzocyclopropane group
.1	Alcohol acids with hydroxyl and carboxyl groups in the same sidechain. Mandelic acid.	.664	Indene group. Indene. Indane (hydrindene)
	Tropic acid	.665	Benzocycloheptane group
.2	Alcohol acids with hydroxyl and carboxyl groups in different sidechains	.667	Trinuclear systems
.3	Phenol-alcohol acids. Meconine	.67	Anthracene and its derivatives.
.589	Aldehydeacids. Ketoacids	.672	Anthrahydroquinone. Chrysarobin
.59	Hydrogenated mononuclear benzene hydrocarbons and their derivatives.	.673	Anthraquinone and its derivatives. Alizarin. Purpurin
	Mononuclear hydro-aromatic compounds	674	Compounds with benzene nuclei in addition to the anthracene nucleus. Phenylantranol.
.592	Hydrocarbons and their halogens, nitro and amino derivatives. Cyclohexane		Phenylantracene. Phenolphthalidine
.593	Hydrogenated benzene derivatives containing hydroxyl groups. Cyclohexanol. Napthenol	.677	Phenanthrene and pyrenone group
.594	Aldehydes. Ketones. Cyclohexanone	.678	Condensed trinuclear systems with benzene nuclei linked to nuclei with a different number of carbon atoms. Acenaphthene group.
.595	Hydro-aromatic carboxylic acids		Fluorene group. Naphthindene group.
.596	Derivatives of hydrogenated cymenes.		Pentanthrene group. Indacene group
	Chemistry of the monocyclic terpenes	.68	Systems with more than three condensed nuclei
.597	Polycyclic terpenic compounds in general.		Pyrene group
	Carane group	.681	Naphthacene group. Naphthanthracene group
.598	Pinane group	.682	Chrysene group
.599	Camphane group		Dinaphthanthracene group
.6	Polynuclear benzene derivatives and their hydrogenated derivatives	.683	Picene group
.62	Polynuclear systems with rings directly linked	.684	Fluoranthene group
.621	Biphenyl series in general	.685	Heterocyclic compounds in general
.622	Biphenyl and its homologues	.686	Three-membered rings. Four-membered rings
.623	Phenols and quinones of the biphenyl series	.7	Five-membered rings. Furan. Furfural.
.624	Acids of the biphenyl series. Phenylbenzoic acid. Biphenylcarboxylic acid	.71	Coumarones
.625	Amino and azo compounds of the biphenyl series. Congo dyes. Benzidine. Tolidine.	.72	Thiophens
	Chrysamine	.73	Pyrroles in general
.626	Hydrogenated biphenyl derivatives.	.74	Condensed systems with one pyrrole ring.
	Tetrahydrobiphenyl	75	Indole. Skatole. Indoxyl. Tryptophane. Indigo blue. Indigo white. Indigo carmine
.628	Terphenyl. Triphenylbenzene.		Heterocyclic five-membered systems with one hetero-atom other than oxygen, sulphur or nitrogen
	Tetraphenylbenzene	.76	Five-membered heterocyclic rings with two hetero-atoms, in general, except those with only oxygen or sulphur hetero-atoms.
.629	Phenylcyclopropane compounds.		Pyrazoles. Pyrazoline. Pyrazolone. Antipyrine
	Phenylcyclobutane compounds.	77	Imidazoles. Isoxazoles. Oxazoles. Isothiazoles
.63	Phenylcyclopentane compounds		Thiazoles. Imidazole (glyoxaline). Histamine.
.631	Polynuclear indirectly linked systems		Hydantoin. Histidine
	Diphenylmethane group. Phenylfulvene group.	.79	Five-membered heterocyclic systems with three or four hetero-atoms, except those with only oxygen or sulphur hetero-atoms.
	Auramine. Pyronine. Maclurine		Triazoles. Methylene red. Tetrazoles
.632	Triphenylmethane group	.8	Heterocyclic compounds with six or more atoms in the ring
.5	Malachite green group	.81	Pyran and penthiophen group. Its analogues
.6	Rosaniline group. Methyl violet. Fuchsine.	.812	Simple pyrones
	Aniline blue	.814	Benzopyran compounds
.633	Oxygenated and hydrogenated derivatives of triphenylmethane. Rosolic acid.	.815	Xanthen compounds
	Phenolphthalein. Fluorescein. Eosin	.82	Pyridine compounds in general. Uncondensed systems in particular
.634	Tetraphenylmethane		Pyridine. Picolines. Lutidines
.636	Symmetrical diphenylethane group	.821	Non-oxygenated pyridine derivatives.
.637	Triphenylethane group. Tetraphenylethane group. Pentaphenylethane group.	.822	Piperidine
	Hexaphenylethane group	.829	Papaveric acid
.638	Compounds with two or more benzene nuclei linked by a chain of three or more carbon atoms or by other benzene nuclei	.83	Condensed systems of the pyridine type
.639	Compounds with benzene nuclei linked by aliphatic chains or by cyclic systems	.831	Quinoline group. Quinoline. Lepidine.
.64	Condensed cyclic systems in general.		Hydroxyquinolines
	Spiranes	.832	Polynuclear quinoline derivatives. Atophan
.65	Binuclear systems in general		
.652	Naphthalene and its homologues		
.653	Sulphonic and nitro derivatives etc.		
	Naphthalenesulphonic acids		

547.833	Isoquinoline group	547.944.5	Coca bases
.834	Other systems with two condensed pyridine nuclei. Tropine	.6	Liliaceae bases. Colchicine. Veratrine
.835	Acridine group	.7	Aconite bases. Aconine. Aconitine
.836	Other condensed trinuclear systems	.8	Rutaceae bases. Pilocarpine. Harmine.
.837	Systems with four condensed pyridine nuclei. Apomorphine	.9	Harmaline
.838	Systems with five or more condensed pyridine nuclei. Flavanthrene	.945.1	Calabar-bean bases. Physostigmine (eserine)
.84	Heterocyclic compounds with six atoms in the ring, of which two are hetero atoms other than nitrogen. Dioxan	.2	Ergot bases. Ergotamine. Ergotone
.85	Azines in general. Pyridazine and pyrimidine group	.3	Ricinine
.852	Pyridazines (1,2-diazines)	.947	Yohimbine
.853	Pyrimidine compounds	.95	Alkaloids of animal origin. Ptomaines
.854	Mononuclear pyrimidine derivatives containing oxygen. Uracil. Thymine. Barbituric acid. Veronal. Thiouracil	.952	Nerve substances
.855	Uncondensed polynuclear pyrimidine systems	.953	Cerebrosides. Sphingosine
.856	Quinazoline and other condensed systems of pyrimidine rings and carbon rings	.954	Phosphatides. Lecithin
.857	Purine group	.96	Protagon
.1	Purine and its methyl derivatives	.962	Proteins
.3	Hypoxanthine	.1	—577.112
.4	Theophylline. Theobromine. Caffeine	.2	Simple proteins
.5	Uric acid	.3	Protamines. Salmine
.7	Guanine	.4	Histones
.86	Pyrazine, oxazine and thiazine compounds	.5	Albumins. Serum albumin. Lactalbumin. Ricin
.861	Pyrazine group in general. Pyrazine	.6	Globulins of animal origin. Fibrinogen. Myosin
.864	Phenazine group. Induline. Mauveine. Safran	.7	Globulins of vegetable origin. Edestin.
.867	Oxazine compounds	.9	Excelsin. Legumin
.869	Thiazine, selenazine and analogous compounds. Thiodiphenylamine. Methylene blue	.963	Glutenins. Oryzenins
.87	Heterocyclic systems with six atoms in the ring, of which three are hetero-atoms	.1	Gladins (prolamines). Zein
.88	Heterocyclic systems with six atoms in the ring, having more than three hetero-atoms	.2	Scleroproteins. Collagen. Keratin. Fibroin.
.89	Heterocyclic systems with more than six atoms in the ring	.3	Sericin. Spongin
.9	Natural substances. Substances of unknown composition	.964	Compound proteins. Proteids
.91	Hydrocarbons. Oils. Fats. Waxes. Balsams. Gums. Carbohydrates. Glycosides	.97	Glycoproteins. Mucin. Mucoids
.912	Hydrocarbons of the carotene group. Petroleum hydrocarbons	.972.1	Phosphoproteins. Casein. Vitellin. Ichthulin
.913	Essential oils	.2	Nucleoproteins. Nucleic acids
.2	Zingiberine. Selinene. Cadinene. Cedrene	.3	Chromoproteins. Haemoglobin
.3	Farnesol. Nerolidol. Eudesmol	.973	Protein derivatives and decomposition products. Peptones. Polypeptides
.5	Azulene	.974	Pigments
.6	Diterpenes	.975	—633.86; 667
.7	Jasnone. Muscone. Civetone	.976	Xanthone pigments. Gentisin
.914	Plant juices. Balsams. Resins	.977	Flavone pigments
.915	Fats. Oils. Lipids	.978	Flavonol pigments. Quercitrin. Quercetin.
.916	Waxes	.979.3	Xanthorhamnin. Rhamnetin. Rhamnazin
.917	Carbohydrates	.4	Anthocyan. Delphinidin
.918	Glycosides. Amygdalin. Hesperidin. Saponin. Digitalin. Coniferin	.7	Brazilin. Haematoxylin
.92	Steroids	.8	Cochineal
.922	Cholesterol. Lanolin	.98	—638.3
.93	Bile substances. Bile acids. Bile pigments	.99	Natural anthracene pigments. Purpurin
.931	Glycocholic acid. Taurocholic acid	.991	Algal pigments. Litmus
.932	Cholic acid. Lithocholic acid	.992	Berberine. Natural indigoid pigments. Indican.
.933	Cholanilic acid	.993	Isatan. Tyrian purple
.937	Bile pigments. Bilirubin. Biliverdin. Bilifuchsin	.994	Saffron
.94	Natural alkaloids. Alkaloids of unknown composition	.995	Curcumin (turmeric)
.942	Cinchona bases	.996	Chlorophylls
.943	Papaveraceae bases. Chelidonium		Xanthophyll. Carotene (carotin)
.944.1	Strychnine bases	548/549	Tannins
.2	Curare (urari). Curine	548	Other substances
.3	Solanaceae bases	.0	Bitters. Aloin. Santonin. Picrotoxin
		.1	Humic acids. Lignin
			Animal toxins. Zootoxins
			—591.145
			Urine products. Urobilin
			—591.149; 612.461
			Other nitrogenous substances of animal origin. Chitin. Heparin
			Other non-nitrogenous substances of animal origin
			MINERALOGICAL SCIENCES.
			CRYSTALLOGRAPHY. MINERALOGY
			<i>Matters common to 548 and 549</i>
			CRYSTALLOGRAPHY
			<i>Denote state of substance by -1</i>
			<i>auxiliaries from 54, e.g.</i>
			548-144 Mesomorphic state
			General crystallography
			548.0:53 Crystal physics
			Mathematical crystallography. Continuum theory of crystals
			—548.7
			Special auxiliary subdivisions
			548.1.02 Crystal systems. Crystal classes

548.1.021	Physically isotropic crystals. Regular system (cubic system)	548.734.6	Kratky's convergence method
		.8	Intensity determinations
.022	Tetragonal system	.735	Determination of crystal structure and texture
.023	Hexagonal system	.736	Structures of elements and of inorganic compounds. Crystal lattices
.024	Trigonal system		Investigations with electron beams.
.025	Rhombohedral system	.74	Investigations with cathode rays
.026	Monoclinic system		Infrared examination of crystals
.027	Triclinic system	.75	
Principal divisions			
548.11	Fundamental laws	549	MINERALOGY. SPECIAL STUDY OF MINERALS
.111	Law of constant angles (Romé de Lisle)		<i>The arrangement of 549.2/.8 is based on the Groth-Mieleitner 'Mineralogische Tabellen' (1921).</i>
.112	Systems of coordinates		<i>Denote state of substance by -1 auxiliaries, and other details by .01/.08, both listed at 54, e.g.</i>
.113	Law of simple indices (Haüy)		549.01 Natural occurrence. Origin.
.114	Indices. Parameters		Varieties
.115	Crystal zones		—553
.12	Theory of symmetry. Theory of original forms in general		.02 Composition. Structure
.121	Rotation. Axes of symmetry. Rotation axes		.057 Synthesis
.122	Reflection. Planes of symmetry		.08 Investigation, determination and measurement of minerals and their properties. Instrumentation
.123	Inversion. Centre of symmetry		Precious stones. Gemmology
.124	Rotation reflection. Rotation reflection planes. Screw axes		—535.542; 552.12; 553.086; 553.8; 622.37; 666.23; 671; 681.722; 739.2
.2	Crystal growths. Crystalline aggregates	.091	Native elements and alloys. Carbides. Nitrides. Silicides. Phosphides
.21	Suspended crystals. Crystal groups		Carbon group. Diamond. Graphite
.22	Seed (sedentary) crystals. Druses		Tantalum. Phosphorus
.23	Crystalline aggregates. Homogeneous aggregates		Sulphur. Selenium. Tellurium
.231	Aggregate forms. Oolites. Spherulites. Stalactites	.2	Arsenic. Antimony. Bismuth
.232	Structure of crystalline aggregates	.21	Tin. Lead
.24	Twins. Multiples. Crystal complexes	.22	Iron
.25	Regular overgrowths of crystals of different substances. Heterogeneous aggregates. Hatched structure	.23	Nickel. Ferronickel
.3	Crystal chemistry. Chemico-morphological properties of crystals	.24	Platinum group
.312	Regular lattice types	.25	Copper
.313	Special types of lattice. Mixed crystals. Vitroceramic lattices	.261	Silver
.314	Atomic spaces in the lattice	.263	Gold
.315	Coordination in the lattice. Coordination number	.27	Mercury
.32	Isomorphism. Morphotropy	.281	Sulphides. Sulpho-salts
.33	Polymorphism	.282	Sulphides, selenides and tellurides of semi-metals
	—541.7	.283	Realgar
.4	Irregularities in crystals. Inclusions. Anomalies. Distortions	.291	Orpiment
.5	Formation, growth and solution of crystals	.3	Stibnite (antimonite)
.51	Nucleation. Initial development. Seed crystals	.31	Bismuthinite
.517	Crystallization potential	.312	Sulphides, selenides and tellurides of metals
.52	Mechanics of growth. Rate of growth	.313.1	Sphalerite (zinc blende)
.53	Recrystallization. Succession. Recurrence	.2	Pyrrhotite
.54	Habit. Appearance	.3	Niccolite
.55	Single crystals. Monocrystalline form	.32/.33	Pyrite. Iron pyrites
.56	Crystal liquids (solvates). Water of crystallization (hydrates)	.321 13	Marcasite. Spear pyrites, coxcomb pyrites
.57	Special properties of large crystals	322 21	Arsenopyrite
.58	Solution	.23	Molybdenite
.6	Pseudomorphology of crystals	.324.31	Galena (lead glance)
7	Fine structure of crystals. Discontinuum theory of crystals	.61	Argentite (silver glance)
	—548.1	.62	Chalcocite (copper glance)
.71	Geometric discontinuum theory	325.2	Sulpho-salts. Corresponding selenium and tellurium compounds
.711	Chain systems	.328.1	Bornite
.712	Reticular systems (net systems). Layer systems	.331 11	Chalcopyrite (copper pyrites)
.713	Space systems	.21	Chalcostibite (wolfsbergite)
	—548.1.02	.35	Zinckenite
.718	Reciprocal lattice	.351.11	Sartorite (scleroclase)
.73	X-ray analysis (Roentgen radiography) of crystals. X-ray investigation of properties. X-ray structure	.12	Proustite
	—621.386 and references there	.26	Pyrargyrite
.732	X-ray optics. Bragg's law. Glancing angle	.27	Bournonite
.734	Radiographic methods	.354.11	Tetrahedrite group. Grey copper ore
.2	Laue methods	.12	Sulpharsenates. Sulphantimonates.
.3	Powder methods. Debye and Scherrer method	.42	Sulphovanadates
.4	Rotating-crystal methods	.355	Sulphostannates. Sulphogermanates
.5	X-ray goniometric methods	.36	Stannite (tin pyrites)
		.37	Halides
		371	Simple halides
		.4	Halite (rock salt)
		.45	Sylvine
		.451.1	Fluorite (fluorspar)
		.2	
		.454.2	

549.461.12	Cryolite	549.691.1	Anhydrous amorphous silicates. Natural glass. Tektites (moldavite, australite, billitonite)
464.1	Carnallite		
47	Oxyhalides	.7	Other compounds of oxyacids
.5	Oxygen compounds	.73	Borates. Aluminates. Ferrites. Arsenites.
51	Oxides		Antimonites. Other salts of trivalent elements
.512.1	Tellurite	.731	Anhydrous aluminates, borates etc.
.513.1	Arsenolite. Senarmontite	.1	Spinel. Magnetite. Chromite
.514	Oxides of silicon, titanium, zirconium	.2	Chrysoberyl
.5	Silicon dioxide	.6	Boracites
.51	Quartz	.732	Hydrated borates. Borax
.52	Chalcedony	.74	Carbonates. Selenites. Tellurites. Manganites.
.53	Opal		Plumbates
.56	Tridymite	.742.111	Calcite (calc-spar)
.58	Cristobalite	.112	Magnesite
.6	Titanium dioxide	.114	Siderite (spathose iron)
.73	Pyrolusite (polianite)	.115	Smithsonite (zinc spar). Calamine
.81	Zircon	.121	Dolomite
.87	Uraninite (pitchblende. Ullrichite)	.21	Aragonite
.516	Oxides of bivalent metals	.743.12	Malachite
.22	Zincite (red zinc ore)	.13	Azurite
.517	Sesquioxides of trivalent metals	.75	Compounds of the pentavalent element oxyacids
.1	Corundum. Ruby. Sapphire	.751.11	Nitrate (soda nitre)
.2	Haematite (iron-glance)	.12	Nitre (saltpetre)
.518.1	Cuprite	.753.1	Apatite group. Pyromorphite. Vanadinite
.519.4	Massicot	.755.131	Turquoise. Callinite
.52	Hydroxides	.231	Vivianite
.521.3	Sassolite (sassoline. Native boric acid)	.76	Sulphates. Chromates. Molybdates.
.4	Aluminium compounds. Diaspore		Tungstates
.5	Iron compounds	.761.22	Glauberite
.61	Manganite	.31	Anhydrite
53	Oxysulphides. Kermesite (antimony blende)	.33	Celestite
.6	Silicates. Titanates. Zirconates. Stannates	.34	Barytes
.61	Basic silicates	.766.13	Mirabilite (Glauber's salts)
.611.11	Sapphirin	.21	Gypsum
.21	Staurolite	.311	Kieserite
.612	Tourmaline group	.768.1	Kainite
.613.1	Andalusite (chiastolite)	.8	Organic minerals
.2	Sillimanite (fibrolite)	.88	Hydrocarbons
.3	Disthene (kyanite. Cyanite. Rhaetizite)	.882	Ozokerite (mineral wax) etc.
.4	Mullite	.883	Oxygen-containing transformation products of hydrocarbons. Asphalt etc.
.614	Topaz group. Topaz	.89	Fossil resins and salts of organic acids
.618	Epidote group	.892	Fossil resins
.619.1	Vesuvianite	.1	Amber
.62	Orthosilicic acid salts		
.621	Normal salts		
.14	Olivine (chrysolite. Peridot)		
.43	Nepheline		
.51	Sodalite	55	EARTH SCIENCES. GEOLOGY. METEOROLOGY ETC.
.53	Hauyne (latialite)		—502.6
.55	Lazurite		55(1) Regional geology (in general)
.9	Garnet group		
.623	Acid orthosilicates and related minerals		
.11	Diopside	550	ANCILLARY SCIENCES OF GEOLOGY ETC.
.5	Mica group. Muscovite. Biotite	.2	Geoastronomy. Cosmogony
.6	Brittle mica group		—52-52; 523.31; 524.85; 551.12
.7	Chlorite-serpentine group. Serpentine	.3	Geophysics
.8	Talc group. Talc. Steatite (soapstone).		550.3(100) International work.
	Sepiolite (meerschauum)		International Geophysical Years
.9	Kaolin group. Kaolinite	.311	Geophysical evolution and structure
.632	Cordierite group. Cordierite	.312	Gravity and isostasy (equilibrium theory).
.634	Astrophyllite group		Distribution of specific gravity. Gravity measurement
.641.23	Ilmenite		—528.27
.642.21	Diopside		State of aggregation. Phases
.25	Common augite (black augite)	.32	Seismology. Earthquakes
.26	Jadeite	.34	550.34(084.3) Earthquake maps
.41	Wollastonite		
.643.22	Actinolite		Special auxiliary subdivisions
.25	Common hornblende	550.34.01	Theory. Models. Research. Development
.645	Leucite	.016	Experimental investigation. Measurements.
.646	Beryl group. Emerald. Aquamarine		Testing. Field experiments
.65	Polysilicic acid salts	.03	Seismological programs, systems, equipment
.651	Feldspar group	.034	Observatories. Seismological stations
.11	Orthoclase (potash feldspar). Adularia	.04	Network design and standards. Scales (Richter scale etc.)
.12	Sanidine (potash soda feldspar)	.06	Seismic identification. Location determination. Detection
.2	Plagioclases		
.655	Titanite (sphene)		Principal divisions
.657.13	Benitoite	550.343	Prediction of natural phenomena
.67	Zeolites	.344	Wave types related to seismology
.691	Amorphous silicates		

550.344.4	Sea waves seismically caused. Tsunamis	550.46	Geochemistry and geochemical action of the hydrosphere and atmosphere
	—551.466.6		—551.579; 556.114; 556.314
.5	Surface waves. Ground roll		Biogeochemistry
.6	Body waves	.47	—577; 581.19; 591.04/.05
.347	Transmission media		Geobiology. Geological actions of organisms
.2	Seismic anomalies. Shadow zones. Faults etc.	.7	—551.438
.4	Discontinuities		Action of lower organisms
.6	Media. Earth's crust, mantle, core	.72	Action of plants
.348	Seismic disturbances and their causes	.73	Action of animals
Special auxiliary subdivisions			Action of humans
550.348.098	Characteristics of disturbances		Applied geology and geophysics. Geological prospecting and exploration. Interpretation of results
.2	Depth of focus	.75	—622.1
.32	Macroseismic disturbances	.8	Special auxiliary subdivisions
.33	Microseismic disturbances. Tremors. Microtremors		550.8.01
.4	Source location. Focus. Hypocentre		Theory. Principles of research and investigation
.5	Epicentral area or zone. Epicentre		Theoretical investigation. Use of models etc.
.64	Seismicity. Earthquake frequency. Seismic belts. Aseismic and seismic regions		Experimental geology
Principal divisions			Practical exploration work. Organization. Programmes. Projects etc.
550.348.3	Extraterrestrial disturbances. Moonquakes	.013	Observations. Geophysical field survey
.4	Earth disturbances	.02	Treatment of investigation results.
.42	Man-made causes. Explosions		Interpretation of data
.43	Natural causes. Earthquakes. Seaquakes	.04	Equipment. Installations. Apparatus
.35	Terrestrial physics of rays and radiations	.05	Measurement: principles and instruments.
	—551.521		Geophysical units
.36	Terrestrial energetics and thermodynamics	.07	—550.8.08 ≈ 53.08
	—523.31; 551.511	.08	
.360	Observation and measurement methods		Principal divisions
.1	Observation methods. Methods of calculation. Units. Scales		550.81
.6	Observation results		Geological prospecting. Simplest exploration methods. Geomorphological investigations while prospecting
.8	Instruments		Geological exploration technique.
	—681.2; 681.7		Geomechanical exploration
.361	Internal heat of the Earth. Variations of temperature with depth	82	Geological drilling. Bore profile. Core samples
.362	Thermal conductivity of rocks, of the Earth's crust	.822	Geophysical exploration techniques
.367	Sources of the Earth's energy. Potential energy of the Earth	83	—624.131.32
.37	Terrestrial electricity. Earth currents	.831	Gravimetric exploration and survey.
.370	Observation and measurement methods		Measurements with variometers, gravity meters, pendulums, gradiometers
	550.370 ≈ 550.360	832	Geophysical methods of well examination.
.371	Earth's electric field in general		Logging
.372	Electric conductivity and dielectric properties of the Earth's crust	.1	Gravimetric study
.378	Radioactivity of soil	.2	Mechanical logging
.38	Terrestrial magnetism (geomagnetism)	.4	Seismic studies of wells
	—537.67	.5	Nuclear-geophysical methods of well examination
.380	Observation and measurement methods	.6	Thermal studies of wells
.2	Magnetic observatories (fixed structures)	.7	Electrometric studies of wells
.8	Magnetic instruments. The compass	8	Magnetic logging
.382	Surface features of the steady field	.834	Application of elastic waves for investigating the Earth's uppermost strata. Seismic and acoustic sounding methods
.383	Underlying plan		Refracted-wave method
.3	Magnetic poles of the Earth		Reflected-wave method
.384	Palaeomagnetism. Origin and secular variation of the field	.3	Diffraction-wave method
.385	Transient magnetic effects. Variations, fluctuations, storms	.5	Methods using natural earthquakes, tremors etc.
.4	Magnetic storms	.7	Radiometric prospecting and surveying methods. Nuclear-geophysical methods
.386	Magnetic activity. Fluctuations. Quasi-persistence	.8	Methods using alpha-ray, beta-ray, gamma-ray, radon emanation. Ionometric methods
.387	Telluric electricity. Electromagnetic earth currents	835	Gamma-gamma method
.388	Phenomena of activation of ionosphere. Luminous manifestations	.2	Neutron methods
.2	Ionosphere: theories, influence, distribution etc.	.4	Methods based on Mössbauer's effect
	—551.510.535	.5	Methods based on use of cosmic rays
.8	Luminous manifestations Auroras	.6	Geothermal exploration, prospecting and survey methods
	—551.594.5	.7	Electrical prospecting, sounding and profiling methods
.389	Magnetic surveys, charts, observations	.836	Natural-field methods
.4	Geochemistry	837	Direct-current (DC) methods, including variations of above methods using low-frequency variable fields
.41	General and theoretical problems. Physicochemical problems	.2	Electromagnetic methods using artificial field source
.42	Occurrence and distribution of elements and their isotopes	.3	
.43	Occurrence of chemical compounds and mixtures	.6	

550.837.7	Radio prospecting methods. Radar (radiolocation) methods	551.245.1	Massive forms
.8	Methods using non-stationary fields	.2	Laminate forms. Bedded forms
.838	Magnetic prospecting and surveying methods	.3	Columnar forms. Cylindrical forms
.84	Chemical and physiochemical methods of geological investigation. Geochemical methods (complex methods)	.4	Spheroidal forms
		.5	Parallelepipedal forms. Cuboid forms
		.6	Irregular forms
.85	Geological sampling in general. Petrographic investigation	.247	Saline tectonics. Salt domes. Salt breccias
.86	Palaeontological exploration	.25	Petrotectonics. Dynamic, chemical, thermal changes of rocks. Metamorphism. Cleavage. Plastic deformation. Schistosity
.87	Biological and psychic investigation. Divining. Dowsing		—552
	—159.961	.3	External geodynamics (exogenous processes)
.93	Geochronology. Geological dating. Absolute geological age or time determination		Special auxiliary subdivisions
	—529; 551.7; 621.039.86	551.3.051	Sedimentation. Stratification
551 1/.4	GENERAL GEOLOGY	.1	Intersecting stratification
1	General structure of the Earth	.3	Ripple marks
.11	Shape of the Earth in general	.9	Direction of strike
.12	Theories of the origin of the Earth	.053	Erosion. Corrosion. Weathering
	—52-52; 550.2	Principal divisions	
.14	Lithosphere	551.31	Terrestrial formations
.15	Layers between lithosphere and barysphere	.311	Aeolian type and continental erosion
.16	Core. Barysphere	.11	Effects of cold in general
.2	Internal geodynamics (endogenous processes)		—551.33
	—502.64	.19	Effects of heat
.21	Vulcanicity. Vulcanism. Volcanoes. Eruptive phenomena. Eruptions	.2	Geological effects of continental waters. Weathering. Floods. Relations between climate and continental erosion
.211	Areal eruptions	.21	Erosive action of flowing water. Erosion processes
.212	Fissural eruptions		—551.435.1
.213	Central eruptions. Effusive eruptions. Plosive eruptions	.23	Weathering phenomena. Soil formation
214	Submarine volcanoes and eruptions	.24	—631.48, esp. 631.482
.215	Volcanic systems. Volcanic chimneys		Denudation processes. Transport
	Volcanic pipes. Craters. Calderas	.3	—631.485
.217	Volcanic products. Lava. Bombs. Ashes. Gases	.8	Aeolian effects. Action of wind. Dunes. Loess. Wind-polished rocks
.22	Forms of intrusive and volcanic bodies. Batholiths. Veins. Apophyses. Laccoliths	.312	Mud volcanoes (paint pots). Mudstreams (mudflows. Lahars)
.23	Fumaroles. Solfataras. Geysers. Hot springs. Mofettes. Carbon dioxide vents. Soffioni	.1	Limnic type. Formation by fresh water
	—553.78; 556.368		Crenitic deposits. Deposits from springs. Tufas. Sinters. Dendrites
.24	Geotectonics	.2	—552.54
		.3	Marshes. Moors. Peat. Groundwater deposits
Special auxiliary subdivisions		.4	Geological action of flowing water. Fluvial facies. Terrace formation
551.24 03	Tectogenesis. Tectonophysics	.4	Geological action of lakes. Lacustrine facies
.05	Forms and features of tectonic processes	.313	Estuarine type. Brackish facies. Fluvio-marine facies
.053	Arch or crest of folds and flexures. Anticlinoria	.314	Lagoonal type. Gypseous facies
.054	Trough of folds and flexures. Synclinoria	.32	Glaciology
.055	Massifs. Shields		—624.14
.056	Shelves. Ledges	.321	Glaciological methods and instruments
Principal divisions		.1	Investigation of snow and ice crystals
551.241	Tectosphere. Thickness and structure of Earth's crust layers where folding and faulting occur	.3	Tools for cutting, breaking, excavating snow and ice. Ice picks. Snow shovels
.242	Tectonic movements, fluctuations etc. Crust movements. Tectonic structures and their elements	.4	Measurement of temperature of snow, ice, glaciers
.1	Tectonic movements. Vertical: uplift, subsidence, throw Horizontal: lateral shift, heave	.5	Measurement of movement of snow, ice, glaciers
.2	Ocean tectonics. Tectonics of sea bed. Submarine troughs, trenches, ridges, platforms	.6	Measurement of thickness of ice. Ice sounding
.3	Geosynclines. Folded belts, regions, zones	.7	Measurement of properties of snow cover
.4	Zones of activation	.8	Glaciological model experiments
.5	Platforms	.322	Solid water substance. Ice and snow
.243	Structural geology. Fracture disturbances. Plutonic fractures. Faults. Folds		—551.578.4; 556
.1	Faults. Horsts. Grabens. Rift valleys. Fault breccias	.324	Land ice. Glaciers
.2	Flexures. Isoclines. Monoclines	.22	Valley glaciers. Cirque glaciers
.3	Folds. Elements of folds	.24	Ice sheets. Ice caps
.4	Thrusts. Tectonic covers. Overthrust sheets. Nappes (recumbent folds). Tectonic flakes. Windows	.28	Barrier ice. Ice shelves
.244	Uplift. Subsidence. Compression. Tension	.296	Cave ice. Ice in caves
.245	Jointing of rocks. Forms	.3	For ice caves — 551.324.87; 551.444.6
		.4	Dimensions of particular glaciers. Depth measurements
		.43	Mass and energy balance of glaciers. Thermal balance
		.5	Regime of glaciers. Glaciation. Accumulation. Ablation. Melting. Firn line. Snow line
		.6	Glacier flow
			Glacier fluctuation. Advance and retreat

551.324.8	Structure and surface features of glaciers.	551.352.1	Argillaceous facies (clay facies). Dark silt
	Lamination. Bubbles	.2	Calcareous facies. Calcareous sand and silt
.83	Moraine materials as glacial feature. Rock flour	.4	Organogenic facies. Organic slime. Sponge reefs. Diatom ooze
	—551.332.53	.353	Abyssal type. Rubiginous facies. Deep-sea clays. Siliceous facies
.85	Crevasse. Bergschrunds. Randklüfts	.4	Geomorphology. Study of the Earth's physical forms
.86	Glacier streams. Jökullhlaups (glacier floods)		Special auxiliary subdivisions
.87	Glacial pot-holes, sinks. Glacier mills (moullins). Glacier arches. Ice caves. Ice grottoes	551.4.02	Fieldwork. Laboratory work
	—551.324.296; 551.444.6	.03	Morphology. Basic forms of relief, regardless of origin
.88	Ablation phenomena. Dirt cones. Ice pyramids. Séracs. Penitentes. Ice tables	.032	Plains
.326	Floating ice	.033	Plateaus
	—551.467	.034	Elevated plains
.1	Distribution and movement of floating ice	.035	Mountains
.2	Formation and decay of floating ice	.036	Valleys. Terraces
.3	Structure and surface features of floating ice	.037	Slopes
.4	Erosion by floating ice	.038	Coasts
.5	Extraneous matter in floating ice: transport etc.	.04	Dynamic geomorphology
.6	Icebergs	.042	Exogenous processes and forms
.7	Sea ice. Pack ice. Drift ice. Floes	.044	Endogenous processes and forms
.8	Ice on the surface of inland waters	.05	Inverted relief: processes and forms
.328	Anchor ice. Frazil ice	.06	Climatic geomorphology
.33	Glacial geology	.07	Palaeogeomorphology
.331	Exaration (glacial erosion). Glacial scour	.08	Applied geomorphology
.332	Glacial deposition		Principal divisions
.2	Glacial deposits. Till (boulder clay). Tillite. Varves	551.41	Shape, outline of continents
.5	Accretionary formations, as deposits	.42	Islands. Archipelagoes. Peninsulas
.52	Terminal and push moraines, as deposits.	.43	Relief forms of the Earth's surface.
.53	Depositional moraines		Landforms. Morphostructures.
.56	Ground moraines, as deposits. Migrating moraines	.432	Morphosculptures
.57	Ice-dammed lakes. Glacial lakes. Disruption of water drainage	.2	Morphostructures formed by most recent tectonic movements and volcanic processes.
.58	Boulder trains. Erratic blocks	.3	Mountain and platform-plain relief
	Outwash plains. Sandar. Proglacial valleys, as deposits	.4	Mountainous relief of geosynclinal areas
.334	Glacial isostasy. Glacial eustasy. Effects of ice cover	.5	Mountainous relief of activated platforms
.336	Former ice cover. Ice ages, e.g. 551.336"625" Quaternary ice ages	.7	Faulted mountainous relief, with forms created by epeirogenetic movements. Horsts. Grabens. Valleys
	—551.793	.8	Mountain and ridge relief created by dislocations in folding process (plivative process) and saline tectonics. Basins. Troughs
.337	Chronology of the Pleistocene and Recent	.433	Volcanic relief
.338	Periods in relation to ice cover	.435	Relief of platform plains. Elevated plains of median massifs. Plateaus
.34	Theories of the causes of glacial periods		Morphostructures formed by exposure of old passive geological structures
.341	Effects of frost on rocks and soils.	.1	Morphosculptures. Relief forms created by exogenous processes. Dynamic and climatic geomorphology
.342	Cryoturbation. Frozen soils. Permafrost	.11	Relief forms created by erosive action of permanent and intermittent watercourses
	—622.271.7; 624.139; 624.14	.12	—556.537; 627.15
.343	Methods and equipment for investigating frozen soils	.13	Relief forms created by erosive action of permanent watercourses. Gorges. Ravines. Canyons. River valleys. Eroded pot-holes
.345	Effects of frost on hard rocks.	.16	Relief forms created by accumulative action of permanent watercourses. Levees. River spits. Shallows. Deltas
.35	Frost-shattering. Gelation	.17	Relief forms created by combined erosive and accumulative action of permanent watercourses. Fluvial terraces. Ox-bow lakes
	Effects of frost on surface deposits.	.18	Relief forms created by erosive action of intermittent watercourses. Alluvial fans. Dry deltas
	Solifluction. Soil flow. Soil creep.	.2	Relief forms created by accumulative action of intermittent watercourses and temporary lakes. Takys. Salt pans
	Congeliturban. Frost-heaving. Periglacial patterned ground, as frost effect. Stone polygons, circles, as frost effect	.21	Relief forms created by weathering, overland flow, wash, mass movement of waste
.345	Frozen soils. Permafrost. Cryopedology	.22	Peneplains
.35	Marine deposits	.24	Pediains. Pediments. Glacis
	Special auxiliary subdivisions		Slopes and forms created by overland flow, wash, mass movement of waste. Tors. Earth pillars. Earth pyramids
551.35.054	Destructive action of the sea		
.1	Effects of surf		
.2	Erosion by tidal flow		
.3	Chemical effects of seawater		
.4	Destructive effect of marine plants		
.5	Destructive effect of marine animals		
.06	Marine transgression. Elevation. Marine regression		
	Principal divisions		
551.351	Coastal deposits. Littoral deposits. Reef formation. Shelf formation. Beach-drifting. Coast-displacement		
.1	Gravel, shingle, pebble facies		
.2	Shelf deposits. Sand facies		
.25	Quicksands		
.5	Coral reefs, as deposits		
.352	Bathyal type. Pelagic deposits		

- 551.435.27 Inselbergs
 28 Forms of tableland and escarpment. Cuestas. Scarps. Monadnocks
 .3 Relief forms created by action of waves, tides, littoral processes, currents etc. in seas and lakes
 —551.468; 627.222
 .31 Coastal abrasion forms. Raised benches. Coastal cliffs. Stacks, rock pillars
 .32 Coastal forms created by accumulation. Beaches. Shore terraces. Coastal spits. Bay bars. Tombolos
 —627.223.7
 .33 Forms created by abrasive and accumulative action of tides. Tidal trenches. Tidal mud-flats. Watten
 .34 Relief forms created by combined abrasive and accumulative action. Marine terraces
 .36 Types of coast. Coastlines. Shorelines
 .37 Bays
 .38 Lake basins, e.g. maar craters
 .4 Relief forms created by the action of continental and mountain glaciations and their meltwaters, by exaration, accumulation, fluvio-glacial processes
 .42 Relief forms created by exaration (glacial erosion). Fiords. Kars, corries, cwms. Ridges, arêtes. Cols, saddles. Horns
 .43 Relief forms created by combined exaration and accumulative action of glaciers. Basin terminals. Drumlins
 .44 Relief forms created by accumulative action of glaciers. Moraines
 .47 Relief forms created by erosive action of fluvio-glacial streams. Urstromtäler (proglacial valleys). Glacial pot-holes, sinks, as relief forms
 .48 Relief forms created by accumulative action of fluvio-glacial streams and lakes. Outwash fans. Asar. Eskers. Kames
 .5 Relief forms created by periglacial processes
 .52 Forms created by frost-shattering
 .53 Forms created by sorting and arrangement of soil materials by freezing and thawing, by congeliturbation. Periglacial patterned ground, as relief form. Banded ground. Stone polygons, circles, as relief forms
 .55 Forms created by solifluction
 .57 Forms created by combined action of solifluction and overland flow, wash. Grèzes litées
 .58 Forms created by frost weathering and altiplanation. Rock streams
 .6 Relief forms created by gravity
 .62 Destructive forms created by gravity. Avalanche tracks. Landslides
 .64 Accumulative forms created by gravity. Hillside debris. Scree. Talus slopes
 .7 Relief forms created by aeolian processes, action of wind
 .72 Relief forms created by deflation. Stone mushrooms. Yardangs. Stone deserts (hammadas)
 .74 Relief forms created by aeolian accumulation of sand. Dunes. Sand deserts (ergs)
 .76 Relief forms created by aeolian accumulation of loess. Loess ridges. Loess hills etc.
 .77 Types of desert
 .8 Relief forms created by chemical dissolution and suffosion. Karst geomorphology
 .81 Karren (lapiés)
 .82 Sink holes. Swallow-holes. Pot-holes, as karst. Ponors
 .83 Dolines (karst funnels). Jamas. Poljes
 .84 Caves. Grottoes. Stalactites. Stalagmites
 .85 Siphons. Underground channels. Spring pots. Sinkage. Underground lakes
 .87 Cone karst (Kegelkarst)
 .88 Types of karst
- 551.438 Relief forms created by human and other organic action
 —550.7
 .2 Organogenic relief forms
 .22 Phytogenic forms (of vegetable origin). Peat bogs
 .23 Zoogenic forms (of animal origin). Coral reefs, as relief forms. Atolls
 .5 Anthropogenic relief forms (of human origin), e.g.
 551.438.5 625.74 Forms created by road construction
 .439 Relief forms of extraterrestrial origin. Meteor craters
 .44 Speleology. Caves. Fissures. Underground waters
 .442 Fissures. Grottoes. Caves. Caverns. Cavings (funnelled sinkings)
 —551.435.84
 .444 Underground waters. Subterranean rivers, streams, lakes
 .6 Subterranean permanent ice. Ice caverns
 —551.324.3; 551.324.87
 .448 Sink holes. Swallow-holes. Pot-holes, in speleology. Karst funnels. Dolines etc.
 .46 Physical oceanography. Submarine topography. Ocean floor
 Details by auxiliaries of place
 551.46(26) Regional oceanography.
 Particular seas and oceans
- Special auxiliary subdivisions**
 551.46.0 General aspects of physical oceanography. Theory. Observations. Applied oceanography
 .06 Observational data. Data of individual expeditions
 .07 Oceanographic laboratories and fieldwork. Expeditions, cruises. Research vessels, survey ships. Diving apparatus
 .08 Oceanographic instruments. Tide gauges. Bathymeters. Current measurement. Wave meters
- Principal divisions**
 551.461 General features. Sea level. Horizontal extent
 .2 Sea level (regardless of tides)
 .6 The oceans as a whole
 .7 Horizontal extent. Geographical divisions and nomenclature of seas and sea areas
 —(26), Table (e)
 .8 Palaeo-oceanography
 .462 Submarine topography. Sea-floor features
 .2 Depths of the sea. Abyssal zone
 .3 Continental blocks. Continental shelves. Insular blocks. Island shelves
 .5 Depressions in the ocean floor. Basins. Troughs, trenches, deeps
 .6 Elevations of the ocean floor. Seascarpes. Seamounts. Submarine ridges, rises, plateaus
 .463 Seawater. Physical properties of seawater
 —53
 .1 Mechanical properties of seawater
 .2 Compression waves. Underwater sound. Acoustics of the sea
 .3 Phase properties. Colligative properties
 .5 Radiation. Optical properties. Reflection. Refraction. Colours
 .6 Thermal properties. Thermal conductivity. Latent heat
 .7 Electrical properties. Electrical conductivity
 .8 Suspensions in seawater. Suspended particles
 .464 Chemical properties of seawater. Chemistry of seawater
 —54
- Special auxiliary subdivision**
 551.464.09 Applied chemistry. Extraction of chemical substances from seawater. Water extraction, desalination
 —628.113.5 and references there

Principal divisions			
551.464.1	Physical chemistry of seawater.	551.501.8	Observation of upper-air structure with radar, radio, spheres. Meteorological evaluation of atmospheric radio interference
.3	Electrochemistry. pH value. Alkalinity	.9	Observatories: construction, maintenance. Exposure of instruments. Site
.5	Composition of seawater. Dissolved constituents. Biochemistry. Geochemistry	.506	Periodical observational data
.6	Salinity determination in the laboratory	.7	Upper-air observations
.6	Particular elements and inorganic compounds	.8	Phenology. Plants and animals as meteorological indicators
.7	551.464.6 $\approx$ 546	.507	Instrument carriers, e.g.
.465	Dissolved organic compounds	551.507:629.114	Motor vehicles
	551.464.7 $\approx$ 547	:629.733.3	Balloons
	Structure, dynamics, circulation of the sea		
	—532	.508	Meteorological instruments
.11	General theory. Hydrodynamics of the sea	.2	Instruments for determining radiation and temperature. Actinometers. Solarigraphs. Thermometers etc.
.12	Statics of the sea	.4	Instruments for determining atmospheric pressure. Barometers. Aneroids
.15	Turbulence of the sea. Eddy theory	.5	Instruments for determining wind. Anemometers. Wind-vanes, weathercocks. Nephoscopes
.4	Stratification. Three-dimensional hydrographic structure. Relation to circulation of water masses. Upwelling. Isobaric surfaces	.7	Instruments for determining humidity, evaporation, precipitation (dew etc.), cloud characteristics. Hygrometers. Rain gauges etc.
.5	Sea currents, especially horizontal and non-tidal	.82	Meteorographs. Radiosondes. Automatic instrumentation. Space stations. Weather satellites
.52	Horizontal distribution of non-tidal currents. Sea-current charts	.85	Radar devices for locating meteorological phenomena. Radiolocation
.53	Local and regional non-tidal time variations of currents	.9	Instruments for measuring various physical phenomena
.6	Properties of surface water	.91	For measuring nuclei, impurities
.62	Horizontal distribution of surface-water temperatures and salinities	.92	For measuring visibility. Transmissometers etc.
.63	Local time variations of surface-water temperature and salinity	.94	For measuring atmospheric electricity. Lightning counters etc.
.7	Interactions between the sea and its environment	.95	For measuring composition and structure of atmosphere
	551.465.7:551.5 Influence of the sea on weather, climate	.509	Weather forecasting. Artificial influencing of weather
.8	Interactions of living organisms with water masses. Physicochemical effects, e.g. organic detritus and opacity	1	Wireless and telegraphic transmission of synoptic messages
.466	Sea waves and tides	.2	Regular meteorological reports, maps, charts, diagrams
	—52-42, e.g. 523.31-42; 532.593/.596; 627.223	.3	Bases and methods of forecasting
.2	Principles of interpretation and methods of analysis of sea-wave observations. Wave analysers	.313	Dynamics, hydrodynamics, thermodynamics, applied to forecasting
.3	Wind waves. Swell. Swell waves. Foaming. Action of oil on waves. Slicks	.314	Statistics applied to forecasting
.4	Effects of the bottom, of obstacles, of currents, of turbulence, on wind waves and swell. Breakers. Surf	.32	Forecasting of particular features.
.6	Long waves (tidal waves). Inertia oscillations, seiches etc. Seismic sea waves, tsunamis	.33	Forecasting of wind, temperature, cloud, mist, cyclones, whirlwinds
.7	—550.344.4	.5	Forecasts for longer periods: week, month, season
.8	The tide. Tidal analysis, prediction. Cotidal lines. Tide tables. Tidal currents. Tidal bores	.6	Forecasts, their organization and control
.467	Ice in the sea. Ice and icebergs from the oceanographic point of view	.8	Artificial influencing of weather
	—551.326, esp. 551.326.7	51	—628.55
.468	Marine geography. Areas of sea bordered by coasts		Weather lore
	—551.435.3; 627		Structure, mechanics, thermodynamics of the atmosphere in general. Dynamic meteorology
.1	Interactions of sea and shore	.510	—523.31-852
.2	Nearshore currents	.4	Physical properties, composition, general structure of the atmosphere
.3	Areas of deep sea bordered by coasts. Bays, bights, voes. Fiords. Natural channels, gats	.52	Composition of the atmosphere. Impurities. Dust
.4	Areas of shallow sea bordered by coasts. Nehrungen (spits). Haffs. Lagoons. Tidal mud-flats. Watten	.522	Troposphere in general
.4	Inland seas	.528	Layer in contact with Earth's surface
.6	Estuaries	.53	Tropopause
	—556.54; 627.16	.532	Atmosphere above the tropopause
551.5	METEOROLOGY	.533	Stratosphere
.50	Practical meteorology	.534	Mesosphere
.501	Methods of observation and computation	.535	Ozone layer
.3	Systems of units. Weather notations. Scales, e.g. Beaufort Scale	.536	Ionosphere. Thermosphere
.4	Methods of reduction and computation. Tables	.537	Extreme exterior layers. Exosphere
.5	Graphical methods of representation. Isopleths	.7	Magnetosphere
.7	Upper air: observation and computation methods	.511	Radioactivity of the atmosphere
		.513	Mechanics and thermodynamics of atmosphere. Turbulence and diffusion
			General circulation of atmosphere

551.513.3	Centres of action	551.558.1	Convection. Thermals
.5	ITCZ (Intertropical Convergence Zone)	.2	Large-scale vertical air movements. Helm winds, moazagotl etc.
515	Weather. Atmospheric formations and disturbances	57	Aqueous vapour. Hydrometeors —556.1
.1	Barometric depressions. Extratropical cyclones. Life history. Displacement. Tracks	.571	Humidity
.2	Tropical cyclones. Hurricanes. Typhoons	2	Distribution of vapour at Earth's surface
.3	Tornadoes. Waterspouts. Whirlwinds. Dust devils	.7	Upper-air humidities
.4	Convective precipitation systems. Thunderstorms. Showers —551.578.1	.573	Evaporation. Evapotranspiration
.5	Other tropical atmospheric formations and disturbances	.574	Condensation and deposits
.7	Anticyclones	.1	Nuclei. Cloud droplets. Ice particles in clouds
.8	Air masses and fronts	.2	Artificial condensation
.9	Weather damage in general	.4	Condensation on Earth's surface
.52	Radiation. Temperature	.41	Liquid condensation. Dew
.521	Radiation	.42	Solid condensation. Frosts. Rime. Hoar-frost. Glazed frost. Silver thaw
.1	Solar radiation in general	.7	Condensation and deposits on objects in the upper air
.11	Sunshine	.575	Fog. Mist
.13	Solar constant	.1	Structure, formation, dissolution of fog and mist
.14	Reflection of solar radiation from surface of Earth or clouds. Albedo —523.31, e.g. 523.31-652	.2	Distribution of fog and mist
.16	Daylight	.3	Variations of fog and mist
.17	Ultraviolet radiation	.576	Cloud
.18	Infrared component of solar radiation	.1	Cloud structure, formation, dissolution. Cloud nomenclature, classification
.2	Terrestrial radiation	.2	Amount of cloud. Nebulosity
.3	Absorption, scattering and transmission in the atmosphere	.3	Variations of cloud properties
.31	Solar radiation	.4	Cloud height
.32	Terrestrial and atmospheric radiation	.5	Cloud movement
.326	Radiation of the night sky	.577	Precipitation in general —556.12
.64	Cosmic, penetrating radiation (meteorological aspects)	.1	Structure, formation, dissolution of precipitation
.67	Corpuscular radiation of the Sun (meteorological aspects)	.2	Distribution of precipitation at Earth's surface
.524	Temperature of the air	.21	Amount of precipitation. Isohyets. Rainfall depths
.2	Distribution at Earth's surface. Isotherms	.22	Duration of precipitation. Days with precipitation
.3	Variations at Earth's surface	.3	Variations of precipitation. Frequencies. Excessive falls. Droughts
.36	Frequencies. Maximum and minimum temperatures	.5	Influence of topography, vegetation, human factors, expanses of water, lakes, rivers
.37	Frosts. Frost damage —551.574.42; 624.142	.6	Damage by precipitation. Damage by droughts
.4	Vertical distribution in the turbulent layer near Earth's surface	.7	Radioactivity of precipitation
.7	Upper-air temperatures	.578	Particular forms of precipitation
.525	Earth temperature. Surface temperatures. Grass minima. Cave temperatures etc.	.1	Liquid precipitation. Rain. Drizzle. Fog-drip
.526	Temperature of water surfaces, as meteorological element	.4	Snow. Sleet. Granular snow. Ice needles —551.32
.54	Atmospheric pressure	.45	Snow storms
.541	Microvariations of pressure	.46	Snow cover. Depth, firnification etc.
.542	Distribution of pressure at Earth's surface. Isobars	.48	Snowdrifts
.1	Barometric gradient	.7	Avalanches —551.435.62; 624.127; 624.144
.543	Variations of pressure	.8	Hail
.547	Upper-air pressure	.579	Precipitation containing foreign bodies
.55	Wind and turbulence		Soil moisture and hydrology.
.551	Wind structure. Microvariations of wind. Gustiness. Turbulence	.58	Hydrometeorology. Water supply —550.46; 556.1; 556.532; 556.552
.2	Turbulence in the lower layers	.581	Climatology
.5	Turbulence in the upper atmosphere		Solar climate. Climatic zones. Influence of latitude on climate, e.g.
.552	Horizontal distribution of wind near Earth's surface. Streamlines		551.581(211) Polar climate (212) Temperate climate (213) Tropical climate. Torrid zones
.553	Variations of wind at Earth's surface	.582	Climatology of particular places, regions, parts of the Earth. Climatological monographs
.11	Land breezes. Sea breezes. Lake breezes	.583	Variations of climate. Climatic change —551.324.6
.12	Mountain winds. Valley winds	.2	Variations of climate in historical periods
.21	Monsoons	.3	Prehistoric variations of climate. Climate of Quaternary period
.8	Gales	.7	Palaeoclimatology 551.583.7 ≈ 551.7
.554	Vertical distribution in the turbulent layer near Earth's surface	.584	Mesoclimatology. Microclimatology
.555	Winds of particular localities. Trade winds. Doldrums. Föhn. Bora. Mistral. Blizzard. Sirocco. Simoom etc.	.2	Mesoclimate. Local climate
.556	Effects of wind. Wind damage. Utilization of wind. Wind power		
.557	Upper-air wind. Anti-trades. Jetstream		
.558	Vertical components of air movement		

551.584.3	Microclimate with reference to terrain and soil peculiarities	551.734	Devonian. 400-350 MYBP
.4	Microclimate of air layers affected by vegetation	.1	Old Red Sandstone
.5	Urban microclimate. Microclimate of streets and open spaces in towns	.2	Lower Devonian
.6	Cryptoclimate. Climates of enclosed spaces. Indoor climate —628.8	.4	Middle Devonian
.7	Climate of air spaces in soil and in snow cover	.5	Upper Devonian
.585	Types of climate. Climate classification	.735	Carboniferous. 350-270 MYBP
.586	Biometeorology. Bioclimatology	.1	Lower Carboniferous
.587	Climate of the upper atmosphere above particular places	.2	Upper Carboniferous
.588	Influence of environment on climate. Influence of topography, soil, subsoil, water, vegetation, buildings etc.	.9	Permo-Carboniferous
.589	Synoptic climatology	.736	Permian. 270-220 MYBP
.6	Special phenomena. Ice Saints' Days	.1	Lower Permian. Rotliegendes
.59	Various phenomena and influences	.3	Upper Permian. Zechstein
.590.2	Cosmic influences	.75	Strata common to Palaeozoic and Mesozoic ages. New Red Sandstone. Karoo formation
.21	Solar influences (except heat)	.76	Mesozoic
.22	Lunar influences	.761	Triassic. 220-180 MYBP
.24	Phenomena at eclipses	.1	Lower Triassic. Bunter (Grès Bigarré)
.3	Effects of volcanic eruptions on weather and climate	.2	Middle Triassic. Muschelkalk
.591	Visibility	.3	Upper Triassic. Keuper
.1	Physics of visibility	.762	Jurassic. 180-135 MYBP
.3	Variations in visibility at Earth's surface	.1	Lower Jurassic. Liassic
.6	Vertical and oblique visibility	.2	Middle Jurassic. Dogger
.593	Optical phenomena in the atmosphere	.3	Upper Jurassic. Malm
.1	Phenomena produced by refraction in the air	.763	Cretaceous. 135-70 MYBP
.11	Mirages. Fatamorganas	.1	Lower Cretaceous
.5	Phenomena produced by absorption and scattering	.3	Upper Cretaceous. Chalk
.53	Blue of the sky	.77	Cenozoic (Cainozoic). Neozoic
.54	Dry haze, turbidity	.78	Tertiary. 70-1 MYBP
.55	Twilight glow. Airglow. Alpenglow. Dawn light. Dusk light	.781	Paleogenic. Nummulitic
.6	Phenomena produced by condensation products	.3	Palaeocene
.61	Fogbow. Brocken spectre. Glories, aureoles	.4	Eocene
.62	Rainbows	.5	Oligocene
.63	Haloos. Parhelion (mock Sun). Paraselene (mock Moon). Anthelion. Sun pillars	.782	Neogene
.64	Coronas	.1	Miocene
.65	Coloration of clouds	.2	Pliocene
.7	Polarization. Neutral point	.79	Quaternary. 1 MYBP - Present
.594	Electrical phenomena in the atmosphere		—“624/627”, “63”, Table I(g); 902/903
.1	Electricity of fine weather	.791	Pleistocene in general. Diluvium
.2	Electricity of disturbed weather	.792	Preglacial period
.21	Electricity of thunderstorms. Sheet lightning	.793	Glacial periods. Ice ages. Interglacial periods —551.336
.22	Electrical discharges. Lightning (forked lightning). St. Elmo's fire	.794	Holocene. Postglacial in general
.25	Electricity of aerosols, droplets, particles	.8	Palaeogeography
.5	Auroras. Aurora borealis (northern lights). Aurora australls		551.8 = 551.7 —550.384; 551.461.8; 551.583.7
6	Atmospheric radio interference, as phenomena of atmospheric electricity —621.391 821	552	PETROLOGY. PETROGRAPHY —553
.596	Acoustic phenomena in the atmosphere	.1	Rock characteristics and properties generally. Physical and physicochemical petrology
1	Propagation of sound. Audibility. Zones of silence	.11	Petrogenesis. Origin of igneous rocks.
3	Supersonic bang	.12	Physicochemical petrology
5	Thunder	.122	Structure, texture, state of crystallization of rocks. Size and nature of constituents
		.123	Structure and texture of rocks
		.124	Size of rock constituents. Grain size (particle size)
		.125	Nature of rock constituents. Concretions.
		.4	Septaria. Secretions. Geodes
		.13	State of crystallization
		14	Mineral forms
		.16	Paragensis. Formation of rock-mineral combinations
		.18	Diagenesis. Formation of sedimentary rocks
		.3	Metamorphism
		.31	Mineral associations
		.311	Magmatic rocks. Igneous rocks
		.313	Kinds of igneous rock in general. Hypabyssal rock
			Plutonic rock in general
			Volcanic rocks in general. Lavas. Pyroclastic rocks. Tuffs. Bombs. Lapilli
			Calc-alkaline rocks
			Plutonic calc-alkaline rocks. Granites.
			Syenites. Diorites. Gabbros
			Hypabyssal calc-alkaline rocks. Granitic porphyries. Aplites. Pegmatites. Syenitic porphyries. Porphyritic gabbros
551.7	HISTORICAL GEOLOGY. STRATIGRAPHY —“61/62”, Table I(g), 56 Details by place auxiliaries, e.g. 551.7(1-92) Regional stratigraphy MYBP = Million(s) of years before present		
.71/ 72	Cryptozoic aeon. Precambrian. 600+ MYBP		
71	Archaean. Ur-gneiss formation. Ur-schiefer formation		
.72	Eozoic. Algonkian		
73	Palaeozoic. 600-180 MYBP		
.732	Cambrian. 600-490 MYBP		
733 1	Ordovician. 490-430 MYBP		
.3	Silurian. Gothlandian. 430-400 MYBP		

552.323	Volcanic calc-alkaline rocks. Quartzose porphyries. Rhyolites. Trachytes. Andesites. Basalts. Diabases	553.22	Metasomatism
.33	Alkaline rocks	.23	Contact phenomena
.331	Plutonic alkaline rocks. Alkaline granites. Alkaline syenites. Nepheline syenites	.24	Wall-rock alteration. Bedrock alteration
.332	Hypabyssal alkaline rocks. Alkaline granitic porphyries. Alkaline syenite porphyries	.25	Primary and secondary minerals. Hypogene and supergene minerals
.333	Volcanic alkaline rocks. Keratophyres. Sodic trachytes. Phonolites. Nepheline basalt	.26	Distribution of ore minerals in deposits. Primary and secondary zoning. Erosion. Redisposition. Migration. Accumulation
.4	Metamorphic rocks	.3/.9	Ore and other mineral deposits. Natural resources
Special auxiliary subdivision		.3	Ore deposits (metalliferous mineral deposits) in general. Iron and manganese ores
552.4.051	Structure of metamorphic rocks, e.g. schistose		—622.34
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552.42	Gneiss	.311	Magnetite-haematite deposits
.43	Crystalline schists. Mica schists	.312	Haematite-limonite deposits
.44	Phyllites. Sericite slates	.314	Brown iron-ore deposits
.45	Quartzites. Navaculites. Itacolumites	.315	Siderite deposits
.46	Marbles	.32	Manganese deposits
.47	Serpentine schists	.323	Manganese oxide, hydroxide, carbonite deposits. Pyrolusite. Psilomelane etc.
.48	Eclogites. Amphibolites	.4	Ore deposits other than iron and manganese
.5	Sedimentary rocks		Gold deposits. Silver deposits
.51	Arenaceous rocks	.41	Gold deposits. Auriferous conglomerates and complex deposits, e.g.
.511	Breccias	.411	553.411.068.5 Gold placer deposits. Auriferous alluvium
.512	Conglomerates. Puddingstones		Silver deposits. Argentiferous deposits
.513	Sandstones	.412	Copper deposits. Cupriferous deposits
.514	Greywackes	.43	Quartz-sulphide deposits
.517	Loose clastic-rock sediments. Pebbles. Shingle. Gravel. Sands	.432	Cupriferous sandstones and slates
.52	Argillaceous rocks. Non-crystalline schists. Shales. Clays. Claystones. Mud	.434	Chalcopyrite deposits
.53	Saliferous rocks. Salts. Gypsum	.435	Lead deposits. Zinc deposits
	552.53 ≈ 553.63	.44	Lead deposits
.54	Carbonaceous rocks. Limestones. Marls. Dolomites. Oolites	.445	Zinc deposits, including zinc blende (sphalerite), silicates, carbonates
.55	Siliceous rocks. Flint. Chert	.446	Tin deposits. Stanniferous deposits
.56	Ironstones	.45	Chromium deposits. Chromite (chrome-iron ore)
.57	Carboniferous rocks	.461	Molybdenum deposits
	552.57 ≈ 553.9, e.g.		Tungsten deposits
	552.574 Coal	.462	Vanadium deposits
.58	Organogenic rocks in general. Diatomaceous earth (kieselguhr)	.463	Nickel deposits
.6	Meteorites	.464	Cobalt deposits. Cobaltite (cobalt glance)
	—523.681	.481	Platinum-group deposits
.61	Iron meteorites. Siderites. Holosiderites	.484	Aluminium deposits
	—549.263	.491	Alkali-metal deposits. Alkaline-earth deposits. Rare-earth deposits. Rare-metal deposits
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.63	Stone meteorites. Aerolites. Chondrites	.493	Radioactive-element deposits. Uranium deposits
.64	Tektites. Australites	.494	Arsenic deposits
	—549.691.1	.495	Antimony deposits
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553.04	Mineral resources and reserves		—622.35
.06	Genetic classification of deposits	.52	Deposits of intrusive magmatic rocks. Plutonic (abyssal) rock deposits. Hypabyssal rock deposits
.062	Magmatic deposits proper	.521	Granite deposits
.064	Pneumatolytic deposits	.522	Syenite deposits
.065	Hydrothermal deposits	.53	Deposits of effusive, volcanic rocks. Lava deposits. Porphyry deposits
.067	Emanation deposits. Igneous rock deposits	.532	Medium and basic lava deposits. Deposits of basalt, andesite, diabase
.068	Exogenetic deposits	.534	Tuff deposits. Trass deposits
.2	Sedimentary deposits	.535	Glassy rock deposits. Deposits of pumice, pozzuolana, perlite, pumicite, volcanic ash
.3	Erosion deposits	.54	Metamorphic rock deposits
.5	Placer and detrital deposits	.541	Schist deposits
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.087	Description. Recording		
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.21	Composition. Alteration. Crystallation. Emanation. Differentiation and crystallization of magma		

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.551	Deposits of limestone, marl, dolomite		Diamond deposits
.555	Chalk deposits	.81	Corundum deposits: sapphire, ruby
.556	Deposits of tufa, travertine	.82	Beryl deposits: emerald, aquamarine
.558	Deposits of lithographic stones, e.g. Solnhofen stone	.83	Topaz deposits
.56	Calcareous sandstone deposits	.84	Garnet deposits
.57	Siliceous rock deposits. Sandstone deposits	.85	Zircon deposits
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.61	Clay deposits. Feldspar deposits. Similar aluminium silicate deposits	.89	553.89 ≈ 549
.611	Clay deposits. Deposits of figuline clays (potter's clay), smectic clays (fuller's earth), bentonite	.9	Deposits of carbonaceous rocks. Hydrocarbon deposits —622.323/.324; 622.33
.612	Kaolin deposits	.91	Graphite deposits. Graphite-bearing deposits
.613	Feldspar deposits	.93	Anthracite deposits
.623	Sand deposits	.94	Coal deposits
.624	Deposits of gravel, pebbles, shingle	.95	Jet deposits. Deposits of bituminous coal (pitch coal)
.631	Rock salt deposits (in general)		Lignite deposits. Brown coal deposits
.632	Deposits of potash salts, salt mixtures	.96	Peat deposits
.634	Deposits of halogen compounds. Deposits of fluorspar, cryolite, iodine compounds	.97	Hydrocarbon deposits. Presence of oil and gas, e.g.
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576.311.348.3	Myofibres (striated muscle)	577.112.38	Classification of the biologically interesting amino acids
.4	Neurofibrils	.382	Aliphatic amino acids. Glycine. Alanine. Leucine. Isoleucine. Valine
.314	Cell membrane	.383	Oxyaminocarboxylic acids. Serine. Threonine
.315	Cell nucleus in general	.384	Dicarboxylic amino acids and their amides. Aspartic acid (asparagine). Glutamic acid (glutamine)
.316	Chromosomes		Dibasic amino acids. Arginine. Lysine. Hydroxylysine
.32/.36	Cell physiology. Cell biochemistry. Cell biophysics. Molecular biology of the cell	.385	Sulphur-containing amino acids. Cystine. Cysteine. Methionine
.32	Mechanical activity of the cell	.386	Aromatic amino acids. Phenylalanine. Tyrosine. Tryptophane
.321	Intracellular motility. Protoplasmic circulation. Plasma streaming. Cyclosis	.387	Imino acids. Proline. Hydroxyproline
.322	Cell motility. Amoeboid movement. Ciliary and flagellary movements	.388	Chemical reactions of the proteins. Determination of terminal and functional groups. Chemical modification of proteins
.323	Contraction. Contractile vacuole	.5	Polypeptide chain. Types of linkage in the proteins. Sequence of amino acids
.324	Deformations of cell body due to passive movements	.6	Synthetic peptides and polypeptides
.33	Irritability and sensitivity of the cell	.82	Simple proteins. Albumins. Globulins. Glutelins. Histones etc.
.333	Taxes. Tropisms (cytological basis)	.85	Compound and conjugated proteins. Proteids. Phosphoproteins. Glycoproteins. Chromoproteins (metalloproteins) etc.
.34	Cell nutrition. Cell metabolism	.113	Nucleic acids
.35	Cell reproduction. Cell division	.114	Carbohydrates. Monosaccharides. Polysaccharides
.351	Amitosis. Direct cell division	.115	Lipids. Lipoids. Fats. Fat-like substances
.352	Endomitosis. Endoreproduction. Duplication of chromosomes without cell or nuclear division	.118	Inorganic and mineral substances
.353	Mitosis. Karyokinesis. Indirect cell division	.12	Dynamic biochemistry. Metabolism of biopolymers and other biologically active substances
.354	Special kinds of cell multiplication, cell division. Meiosis	.121	General aspects of metabolism. Metabolic pathways. Metabolites. Anabolism. Catabolism
.356	Anomalies of cell division	.122	Protein metabolism
.36	Life cycle of the cell	.123	Nucleic acid metabolism
.37	Cytological basis of sexual reproduction of multicellular organisms	.124	Carbohydrate metabolism
.371	Morphology of fertility. Germ cells	.125	Lipid metabolism. Lipoid metabolism. Fatty-acid metabolism
.372	Physiology and biochemistry of fertility	.13	Reserve substances. Substances of secondary origin
.38	Other types of cell function. Other cell activities	.15	Enzymes. Catalysts of biological reactions. Enzymology
.382	Secretory function of the cell. Cellular basis of secretion	.151	General studies of enzymes
.385	Pathological changes in the cell. Cell pathology. Cytopathology. Pathocytology	.3	Enzyme structure. Components of enzyme systems
.2	Oedema. Hydroptic degeneration of the cell	.5	Origin and formation of enzymes
.3	Deposition of substances. Infiltration	.6	Biological properties of enzymes
.4	Pathology of cellular growth. Hypertrophy. Atrophy	.152	Classification and nomenclature of enzymes. Coenzymes. Isoenzymes. Parameters of enzyme reactions
.5	Pathology of cell differentiation. Carcinogenesis. Peculiarities of tumour growth	.1	Oxidoreductases. Oxidases. Dehydrogenases. Reductases etc.
.5	Cell interactions. Intercellular junctions. Cell populations. Cell behaviour in culture	.2	Transferases
.52	Phenomena at cell surfaces. Cell adhesion. Cell contacts	.3	Hydrolases. Hydrolitic fermentations
.53	Cell populations	.4	Lyases
.54	Cell interaction	.5	Isomerases
.6	Cytoecology. Symbiosis of cells and organelles	.6	Ligases (synthetases)
.7	Tissues and organs as a cellular set	.16	Vitamins. Vitamin-like substances. Vitaminology
.8	Parasitology		—591.133.1; 612.015.6; 616.39
.88	Plant parasitology. Parasitic plants	161	Fat-soluble vitamins
.89	Animal parasitology. Parasitic animals. Carriers of disease	.1	Vitamin A group
	576 892/.899 ≈ 592/599	.2	Vitamin D group (calciferols)
577	MATERIAL BASES OF LIFE. BIOCHEMISTRY. MOLECULAR BIOLOGY. BIOPHYSICS	.3	Vitamin E group (tocopherols)
Special auxiliary subdivisions		.4	Vitamin F group (complex of unsaturated fatty acids)
577'3	Cytological, cell and subcell details	.5	Vitamin K group (phyloquinones)
	577'3 ≈ 576.3	.6	Vitamin Q group (ubiquinones)
Principal divisions		.164	Water-soluble vitamins
577.1	Chemical bases of life. Biochemistry and bio-organic chemistry generally	.1	Vitamin B complex or group (Thiamin. Aneurin. Riboflavin. Lactoflavin. Folic acid etc.)
.11	Static biochemistry. Biopolymers and other biologically interesting substances	.2	Vitamin C (ascorbic acid)
.112	Proteins	.3	Vitamin P group (Rutin. Citrin. Hesperidin)
	—547.96	.17	Hormones. Hormonoids
.34	Chemical reactions of the amino acids.		—591.147; 612.018; 615.35; 615.361
.36	Chemical modification of the amino acids		
.37	Three-dimensional structure of the amino acids		
	Amino-acid complexes		

577.171	General studies of hormones	577 323	Physics and physical chemistry of nucleic acids
.3	Chemical structure of hormones		—547.963.3
.4	Biogenesis, formation, metabolism of hormones	325	Enzyme biophysics
.5	Biological function of hormones	33	Quantum biochemistry. Quantum phenomena in biological systems
175	Classification of hormones		Photochemistry of biological systems.
.1	Plant hormones (phytohormones). Auxins. Gibberellins. Cytokinins	.34	Radiation biophysics. Primary processes (physicochemical processes) in photobiology, in radiobiology
.2/.7	Animal hormones	.35	Biophysics of living systems
.2	Hormones of invertebrates. Ergones	.352	Membrane biophysics
.3/.7	Hormones of vertebrates	.353	Biophysics of contractile structure, of biological motility. Mechanochemical processes
.3	Pituitary hormones (hypophyseal hormones)	.354	Biophysics of sensory receptors
.4	Thyroid hormones. Parathyroid hormones	.355	Biophysics of photosynthesis
	Thyroxine. Calcitonin	.356	Structure and state of water in biological systems
.5	Adrenal hormones. Adrenalin. Noradrenalin	.357	Ultra-weak radiation from living systems and model compounds. Mitogenetic radiation
	Aldosterone. Cortisone	.359	Other matters of biophysics of living systems
.6	Sex hormones. Androgens. Testosterone	.38	Theoretical biophysics. Biophysics of control processes. Biophysics of communication
	Oestrogens. Progesterone		
.72	Pancreatic hormones. Insulin. Glucagon	578	VIROLOGY
.73	Gastrointestinal hormones. Gastrin. Secretin	.1	Viral biochemistry
.76	Thymus hormone	.2	Molecular virology
.8	Hormone-like substances (hormonoids). Neurotransmitters. Histamine	.22	In-vitro synthesis of viruses and their components
.18	Antibiotics	.23	Relationship between virus and host cell
	—615.33	.24	Cell reactions to viral infections
.181	General problems and studies of antibiotics	.26	Relationship between cells and temperate viruses
.3	Chemical structure of antibiotics	.27	Simultaneous action of several viruses. Viral interactions. Mixed infections
.4	Biogenesis and metabolism of antibiotics	.28	Modification of infective processes
.5	Biological effects of antibiotics	.3	Morphology of viruses
.6	Antibiotic complexes	.4	Viral ecology
.7	Synthetic antibiotics	.5	Viral genetics
.182	Classification of antibiotics	.7	Medical virology
.22	The penicillins	.8	Classification and systematics of viruses
.36	The actinomycins	.81	Bacterial viruses
.75	The streptomycins	.82/ 83	Viruses primarily of vertebrate hosts
.2	Molecular bases of life. Molecular biology	.84	Viruses primarily of invertebrate hosts
21	Molecular mechanism of coding, storage and realization of inheritance information.	.85/.86	Viruses primarily of plant hosts
	Molecular genetics. Molecular biology of the gene	.89	Unclassified viruses and virus-like particles
.212	Central dogma of molecular biology. Coding of inheritance information. The genetic code and its chemical nature	579	MICROBIOLOGY
	—575.113.1	.2	General microbiology
.213	Reproduction of inheritance information. Replication	.22	Biochemistry and physiology of microorganisms
.3	Enzymatic synthesis in vitro of DNA, of RNA. DNA-polymerase, RNA-replicase systems	.23	Morphology and cytology of microorganisms. Prokaryotic cells
.214	Copying of inheritance information. Transcription	.24	Growth and development of microbial cells
.215	Inverse transcription. Synthesis of DNA on RNA template	.25	Microbial genetics
.216	Transfer of inheritance information. Transport of messenger RNA in the cell	.26	Microbial ecology
.217	Realization of inheritance information. Translation. Molecular mechanisms of protein biosynthesis	.6	Applied microbiology
.218	Molecular mechanisms of control of gene expression. Molecular embryology		—663.1
.22	Structural organization of life. Assembly and self-organization of biological structures	.61	Medical microbiology, e.g.
.23	Energy bases of life. Molecular bioenergetics		579.61:616-078 Diagnostic medical microbiology
.24	Molecular bases of ageing and death. Molecular gerontology		:616-092 Pathogenicity of microorganisms
.25	Molecular mechanisms of sensitivity, reception and response to stimuli. Molecular neurobiology	.62	Veterinary microbiology
.27	Molecular bases of immunity. Molecular immunology	.63	Sanitary microbiology. Microbiology in public health
.3	Physical and physicochemical bases of life. Biophysics. Biophysical chemistry in general	.64	Agricultural microbiology
.31	Thermodynamics and kinetics of biological processes. Oscillatory phenomena in biological systems	.65	—631.461
.32	Molecular biophysics	.66	Cosmic microbiology. Space microbiology
.322	Physics and physical chemistry of proteins	.67	Industrial and chemical microbiology
	—547.96	.68	Food microbiology
		.8	Microbiology of water. Microbiological characteristics and distribution in natural water
		.81	Classification and systematics of microorganisms
		.82	Phototrophic bacteria
			Gliding bacteria

579.83	Sheathed bacteria. Budding and appendaged bacteria. Spirochaetes. Spiral and curved bacteria	581.136	Partial resorption of degenerated parts —581.148
.84	Gram-negative bacteria	.137	Assimilation in heterotrophic plants
.85	Methane-producing bacteria.	.1	Saprophytes. Rot-dwelling plants
.86	Endospore-forming rods and cocci	.2	Carnivorous plants. Insectivorous plants
.87	Gram-positive cocci. Asporogenous rod-shaped bacteria	.3	Parasitic plants
.88	Actinomycetes and related organisms	.4	Hemiparasitic plants
	Rickettsias. Mycoplasmas	.7	Metabolism of heterotrophic plants
		.14	Development —581.3
58	BOTANY	.141	Seed formation
	—631/635	.142	Germination
Special auxiliary subdivisions		.143	Growth
58.01	Effect of internal factors. Developmental factors	.2	Primary growth
.018	External characteristics and traits	.28	Rate of growth. Growth periodicity. Rest periods. Hibernation
	58.018 $\approx$ 57.018	.3	Secondary growth
.02	Effect of external factors. Collective effect of several factors	.4	Transplants
.03	Physical and mechanical effects. General energetics	.5	Re-formation. Regeneration
.031	Weight. Gravity. Parallel forces	.144	Physiology of the development of the vegetative organs
.032	Water. Humidity. Aridity	.1	Thallus
.033	Altitude. Atmospheric pressure	.2	Roots. Subterranean nutrition organs
.035	Emitted and absorbed light. Luminescence (bioluminescence)	.3	Stems
.036	Heat. Temperature. Energetics in the strict sense	.4	Leaves
.037	Electricity. Magnetism	.9	Other vegetative organs
.039	Pressure. Other mechanical effects	.145	Physiology of the development of the reproductive organs
.04	Chemical effects. Effects of anaesthetics, of poisons	.1	Flowers
.05	Effect of biological and meteorological factors	.2	Fruit
.051	Effects of soil	.148	Degeneration. Loss of certain parts. Cicatrization. Withering. Defoliation (leaf loss). Deramification (branch loss) —632.161
	—631.4	.15	Longevity. Death
.055	Meteorological effects. Wind etc.	.16	Variations. Modifications. Mutations —575.2
.056	Climatic effects	.162	Reproduction —57.017.5; 575
.057	Cosmic effects. Influence of the moon	.1	Sexual reproduction in plants
.07	Biological effects. Effects of plants and animals	.166	Reduction of chromosomes. Meiosis (reduction division). Formation of germ-cells, spores
.08	Botanic techniques. Experimental methods. Equipment	.2	Formation of sex cells
	58.08 $\approx$ 57.08	.3	Pollination —638.19
Principal divisions		.4	Physiology of fertilization in the strict sense
581	GENERAL BOTANY	.163	Apomixis. Parthenogenesis. Apospory.
.1	Plant physiology	.164	Apogamy
.11	Circulation. Absorption and emission of fluids	.165	Sterility
.111	Absorption of liquids	.1	Organs of vegetative reproduction —631.53
.112	Circulation of liquids. Rising of sap	.7	Reproduction by suckers, bulbils, tubers, soredia, hormogonia etc. Adventitious embryogeny
.113	Exudation of water —581.135	.166	Special methods. Artificial propagation. Grafting. Cuttings. Layering —631.532/.535; 631.541
.114	Absorption of gases in general	.169	Alternation of generations. Alternating forms
.115	Circulation of gases	.17	Heredity —575.1
.116	Transpiration and emission of gases	.174	Physiology of the cell —576.3
.12	Catabolism. Respiration	.175	Plastids. Chromatophores. Chloroplasts. Leucoplasts
.13	Assimilation. Nutrition. Reserves. Secretions. Metabolism	.176	Cell sap
.131	Assimilation. Energy conversion. Absorption and conversion of food constituents, in autotrophic plants	.18	General physiology of tissues from the point of view of cell physiology —581.8
.132	Carbon assimilation and its products. Photosynthesis. Chemosynthesis etc	.181	Movements. Sensibility
.133	Assimilation of other substances by autotrophic plants	.182	Protoplasmic movements. Taxes in protoplasm
.1	Assimilation of nitrogen	.1	Hygroscopic movements
.4	Assimilation of sulphur	.3	Cohesion mechanisms. Dehiscence of anthers. Projection of spores
.5	Assimilation of phosphorus	.183	Swelling mechanisms. Shrinking. Swelling
.8	Artificial nutrition. Nutrient salt solutions	.184	Paratonic movements. Induced movements. Bending. Irritation response
.134	Reserve substances. Reserve formation and distribution in the plant		Tropisms. Directional responses. Geotropism
.135	Secretion. Excretion		Phototropism. Thermotropism etc.
.1	Laciferous vessels		
.3	Secretory glands and cells		
.4	Nectaries		
.5	Secretions. Essential oils. Perfumes. Resins. Gums. Nectar. Crystals		

581.185	Nastic movements. Nyctinastic movement. Seismonastic movement	581 526.52	Halic formations. Halophytes. Salt-marsh formations
.186	Autonomous movements of nutation and variation. Growth curvature	.53	Desert formations. Chaparral formations. Tundra, cold-desert formations. Arid, dry-desert formations
.188	Movements of locomotion. Taxes. Hydrotaxis. Phototaxis. Thermotaxis etc.	.54	Rock surface formations
.189	Other movements	.55	Snow and ice formations
.1	Projection of seeds and spores by nutation, variation	.56	Crater formations. Crater plants
.15	Chorism. Division, separation processes. Shedding, casting of organs	.527	Floristics. Floral regions
.19	Chemical constituents of plants	54	—581.9
.192	Chemical composition of the plant	55	Climatic conditions. Seasons. Cosmic factors in plant ecology. Phenology
.198	Internal reactions	.552	Sociability. Plant associations and associates
.199	Physiology of fermentations	.553	Consociations. Consocios. Dominant groups within an association
.2	Plant diseases. Plant pathology. Phytopathology. Plant malformation	.554	Societies. Subdominant groups within an association
	—581.2 $\approx$ 632; but prefer 632		Colonies. Small groups on otherwise bare areas
.3	Embryology of plants	555	Climax and seral communities
.32	Ovules. Thecae. Sporogonia	557	Symbiosis. Consortism. Commensalism in plants. Parasitism in plants
.33	Embryo sacs. Pollen grains. Spores		—576.8; 581.137.3; 591.557
	—638.178.2		Breeding habits
.34	Antheridia (male sexual organs of plant)	.56	Means of protection. Means of attraction.
	Oögonia (female sexual organs of plant)	57	Adaptations for self-preservation
	Archegonia		Against mechanical forces
.35	Egg cells. Spermatozoids. Gametes	.572	Against plants and animals. Spines. Thorns.
.4	Plant morphology. Plant anatomy	.573	Secretions. Mimicry
.41	General morphology		Means of attraction. Means of fascination
.42	Thallus. Organs of lower organisms	.574	Applied botany. Use of plants.
.43	Roots. Organs of nutrition	.6	Technobotany. Economic botany
.44	Stems (axes). Neck, hypocotyl. Nodes. Terminal buds. Aerial stems. Tendrils. Cirri. Runners. Stolons. Subterranean stems. Rhizomes. Bulbs. Tubers. Underground runners	.8	—631/635
		.81	Plant histology
.45	Leaves. Laminae. Petioles. Leaf scars. Leaf bases. Leaf tendrils. Cirrous leaves. Sporophylls	.82	—576.3; 581.17
.46	Flowers	.821	General characteristics of plant tissues
.47	Fruit		Various kinds of tissue
.48	Seeds	.822	Tegumentary tissues. Epidermis. Outer skin of plant
.49	Other organs. Surface appendages. Stipules. Ochreae. Ligules. Hairs. Prickles etc	.823	Secretory tissues
.5	Habits of plants. Plant behaviour. Plant ecology. Plant ethology. The plant and its environment. Bionomics of plants	.824	Ground tissues. Parenchyma. Sclerenchyma. Collenchyma
	—631.95	.825	Vascular tissues. Xylem. Phloem
.51	Instinct	.829	Aerative tissues. Lenticels. Aerenchyma
.52	Environment and habitat of plants	.84	Other tissues
.522	Individual ecology. Autecology	.9	Structure of organs from histological point of view. Cosmic factors in the structure of organs
.4	Adjustment. Acclimatization		Geographic botany. Plant geography (phytogeography). Floras. Geographic distribution of plants
.5	Ecological anatomy. Correlation of structure and environment. Advantageous or adaptive structure		—581.527
.6	Migration. Dissemination	582	SYSTEMATIC BOTANY
.524	Associational ecology. Synecology		—561; 57.06
.1	Theoretical and general questions. Mutual influences of living organisms	Special auxiliary subdivisions	Special auxiliary subdivisions
.12	Nature of competition	582-1	Concepts of general botany related to particular plants
.14	Natural pruning		582-1 $\approx$ 581
.2	Invasion	Principal divisions	Principal divisions
.3	Succession	582.2/.3	Cryptogams. Flowerless plants. Spore plants
.4	Zonation	.21	Cryptogams in general
.42	Horizontal zonation	.22	Thallophyta
.43	Vertical zonation	.23	Schizophyta
.44	Climatic zones	.231	Schizomycetes. Bacteria (as plants)
.526	Formational ecology	.232	But prefer 579.8
.3	Hydric formation. Hydrophytes	.24	Schizophyceae. Phycobromaceae.
.32	Aquatic formations		Cyanophyceae. Blue-green algae
.33	Freshwater swamp formations. Low moor formations	.251	Myxomycetes. Myxothallophyta. Mycetozoa.
.34	Heath formations	.252	Phytosarcodina. Slime fungi
.35	Bog formations. High moor formations	.253	Flagellatae
.4	Mesic formations. Mesophytes	.254	Dinoflagellatae. Peridinales. Peridineae.
.42	Forest formations	.255	Cilioflagellatae
.43	Vines. Climbing plants. Lianas	.256	Adiniferidea
.44	Epiphytes	.257	Diniferidea
.45	Prairie formations	.258	Silicoflagellatae
.5	Xeric formations. Xerophytes	.259	Heterocontae
		.26	Algae. Bacillariophyta (Diatomeae). Seaweeds. etc.

582.261.1	Centricae	582.394.736	Cyatheaceae. Tree ferns
.5	Pennales	.742	Polypodiaceae
.262	Conjugatae. Desmidiales. Zygnematales	.75	Hydropteridales. Marsiliaceae. Pillwort.
.263	Chlorophyceae. Green algae. Spirogyra etc.		Salviniaceae
.264	Protococcales. Volvocaceae	.4	Seed plants (flowering plants) in general.
.265	Ulotrichales (Confervales). Ulvaceae.		Siphonogamous embryophyta.
	Chaetophoraceae		Phanerogams. Spermatophyta
.266	Siphonocladales. Cladophoraceae	.42	Gymnospermae in general. Archispermae.
.267	Siphonales. Caulerpacae. Vaucheriaceae		Naked-seed plants. The first seed plants
.271	Charophyta. Characeae. Stoneworts	.43	Cycadofilicales. Pteridospermae. Fern-like
.272	Phaeophyceae. Brown algae. Fucales.		seed plants
	Laminariales. Kelps. Bladderwrack	.44	Cycadales. Palm ferns
.273	Rhodophyceae. Red algae	.45	Bennettitales
.274	Bangiales. Rhodochaetaceae	.46	Ginkgoales. Maidenhair trees
.275	Flordeae. Nemalionales. Gelidiales.	.465	Cordaitales
	Cryptonemiales. Gigartinales. Ceramiales	.47	Coniferae. Conifers
.28	Eumycetes. True fungi. Moulds. Mycology	.471	Taxaceae. Yews
.281	Phycomycetes. Algal fungi	.472	Podocarpaceae. Yellow woods. New Zealand
.1	Oomycetes		white pine
.2	Zygomycetes	.473	Araucariaceae. Monkey puzzles. Norfolk
.21	Mucorales. Mould fungi		Island pines
.282	Ascomycetes	.475	Pinaceae. Pines. Spruces. Larches. Cedars
.17	Helvellineae. Morels	.2	Abietoideae. Firs. Douglas fir etc.
.18	Tuberineae. Truffles	.4	Pinoideae. Pines. Pitch pine etc.
.23	Saccharomycetinae. Yeasts	.476	Taxodeaceae. Swamp cypresses. Sequoias
.283	Protomycetes		(Redwoods). Sequoiadendron (Big Tree,
.284	Basidiomycetes in general		Wellingtonia)
.285	Hemibasidii	.477	Cupressaceae. Cypresses etc.
.1	Ustilaginales. Smut fungi	.2	Thujoideae. Arbor vitae
.2	Uredinales. Rust fungi	.4	Cupressoideae. Cypresses
.287	Eubasidii	.6	Juniperoidae. Junipers. Savin
.1	Protobasidiomycetes	.478	Other coniferae
.2	Autobasidiomycetes	.49	Gnetales. Welwitschia
.23	Hymenomycetinae. Club fungi. Agaric.	.5	Angiospermae. Metaspermae. Stigmateae.
	Toadstools. Mushrooms		Covered-seed plants. Later seed plants
.26	Lycoperdineae. Puffballs	.52/.59	Monocotyledoneae. Monocotyledons
.284	Phallaceae. Stink-horn	.522	Pandanales. Typhaceae. Bur-reed. Club-rush.
.288	Fungi imperfecti		Pandanaceae. Screw-pines
.29	Lichens	.53	Helobiae. Fluviales. Waterweeds. Pondweeds.
.290	Phycolichens. Geosiphonaceae		Potamogetonaceae. Naiadaceae. Juncagineae
.291	Ascolichens	.536	Alismatineae. Water plantain
.292	Pyrenocarpeae	.539	Hydrocharitaceae. Frog-bit. Water thyme
.293	Gymnocarpeae. Discolichens	.541	Triuridales. Triuridaceae
.378	Parmeliaceae. Iceland moss	.542	Glumiflorae
.296	Basidiolichens. Hymenolichens	.1	Gramineae. Grasses. Bamboos
.31	Archegoniatae. Asiphonogamous	.2	Cyperaceae. Sedges
	embryophyta	.545	Principes. Palmae. Palms
.32	Bryophyta (Muscineae). Mosses and	.546	Syanthae. Cyclanthaceae
	liverworts. Bryology	.547	Spathiflorae. Spadiciflorae. Lemnaceae.
.33	Hepaticae. Liverworts		Duckweed
.34	Musci. Mosses	.1	Araceae. Arums. Cuckoo-pint
.341	Sphagnales. Sphagnum Bog mosses	.55/.56	Farinosae. Flagellariineae. Eriocaulaceae.
.342	Andreaeales. Andreaeaceae		Pipewort
.343	Bryales	.564	Bromeliaceae. Pineapples
.344	Eubryinales. Isobryales	.57	Liliiflorae. Liliales
.62	Schistostegaceae. Luminous moss	.571	Juncineae. Juncaceae. Rushes
.345.1	Hypnobryales	.572.2	Liliaceae
.346	Buxbaumiales	.222	Melanthioideae. Meadow saffron (autumn
.347	Polytrichinales		crocus)
.35	Pteridophyta. Ferns. Fernlike spore plants	.224	Asphodeloideae. Asphodels. Aloes
.37	Articulatae	.225	Allioideae. Garlic. Onions
.371	Sphenophyllales	.226	Lilioideae. Lilies. Tulips
.374	Equisetales. Horsetails	.227	Scilloideae. Bluebells. Hyacinths. Squill
.2	Euequisetales. True horsetails		(sea-onion)
.5	Calamitales. Reeds	.228	Dracaenoideae. Dragon tree
.38	Lycopodiinae	.232	Aspargoideae. Asparagus. Lily of the valley
.381	Lycopodiales. Lycopodiales eligutatae. Club	.4	Amarylloidaceae. Narcissi etc.
	mosses	.42	Amarylloideae. Snowdrops. Narcissi.
.2	Lycopodiaceae. True club mosses		Daffodils
.382	Selaginellales. Lycopodiales ligulatae	.43	Agavoideae. Agave. Sisal
.4	Lepidodendraceae	.579.2	Iridaceae. Irises. Flags. Crocuses. Gladioli
.8	Sigillariaceae	.58	Scitamineae. Arillatae. Musales
.391	Psilotinae. Psilotaceae	.582	Musaceae. Bananas
.392	Isoetinae. Isoetaceae. Quillwort	.583	Zingiberaceae. Ginger
.394	Filicinae. Ferns	.584	Cannaceae. Canna (Indian shot)
.4	Ophioglossales. Adder's tongue ferns	.585	Marantaceae. Arrowroot
.7	Leptosporangiateae	.59	Microspermae. Orchidales
.72	Eufilicales. True ferns. Bracken	.592	Burmanniineae
.722	Osmundaceae. Royal ferns	.594	Gynandreae
.726	Matoniaceae	.2	Orchidaceae. Orchids

582.594.4	Pleonandrae. Diandrae. Lady's slipper	582.716	Cephalotaceae
6	Monandrae. Vanilla. Orchis	.717	Saxifragaceae. Saxifrages. London pride.
.6/.9	Dicotyledoneae		Ribes. Currants. Gooseberries. Anise.
.61	Dicotyledoneae in general		Hydrangeas. Deutzias. Philadelphus (mock orange)
.62/.69	Archichlamydeae. Choripetalae. Apetalae		Hamamelidaceae. Wych-hazel (witch-hazel)
.621	Verticillatae. Casuarinaceae	.725	Rosineae
.622	Piperales. Piperaceae. Peppers.	.731	Platanaceae. Plane trees
	Hydrostachyales	.732	Rosaceae
.623	Salicales. Salicaceae. Willows. Osiers.	.734	Pomoideae. Pome fruits. Malus. Apples.
	Poplars. Aspens	.3	Pears. Crabtree (crab, crab-apple). Quince.
.624	Garryales. Garryaceae		Chaenomeles ('japonica'). Rowan (mountain ash). Hawthorn. Medlar. Cotoneaster
.625	Myricales. Myricaceae. Sweet gale (bog myrtle)		Rosoideae. Roses. Briars. Raspberry.
.626	Balanopsidales. Balanopsidaceae	4	Blackberry. Brambles. Strawberry Cinquefoil.
.627	Leitneriales. Leitneriaceae		Avens (herb bennet)
.628	Juglandales. Juglandaceae. Walnuts		Prunoideae. Plum. Damson. Apricot. Peach.
.629	Batidales. Batidaceae	.6	Blackthorn (sloe). Almond. Cherry
.631	Julianiales. Julianiaceae		Leguminosae. Legumes. Pulses. Laburnum
.632	Fagales	.736	Mimosoideae. Mimosa
.1	Betulaceae. Birches. Alders. Hornbeam.	.737	Papilionatae. Lupins. Broom. Gorse (furze).
	Hazelnut	.739	Medicks. Clover. Vetch. Lentils. Peas. Beans.
.2	Fagaceae. Beeches. Copper beech. Sweet chestnut. Oaks		Soya. Fenugreek
.635	Urticales	.74	Pandales. Pandaceae
.1	Ulmaceae. Elms. Wych-elms (witch-elms)	.75	Geraniales
.3	Moraceae. Mulberries. Figs. Cannaboideae.	.751	Geraniineae
	Hops. Hemp	.1	Oxalidaceae. Wood sorrel
.5	Urticaceae. Nettles	.2	Geraniaceae. Geranium. Herb Robert.
.637	Podostemonales. Podostemonaceae		Cranesbills. Storksills
.639	Proteales. Proteaceae	.3	Tropaeolaceae. Nasturtium
.64	Santalales. Olacaceae. Santalaceae.	.4	Linaceae. Flax (linseed)
65	Sandalwoods. Myzodendraceae	.6	Erythroxylaceae. Coca
.651.2	Aristolochiales. Birthwort	.7	Zygophyllaceae
.653	Loranthineae. Loranthaceae. Mistletoe	.8	Cneoraceae
.657	Balanophorales. Balanophoraceae	.9	Rutaceae. Rue. Citruses. Oranges. Lemons
	Polygonales. Dock. Sorrel. Bistort. Rhubarb.	.752.1	Simarubaceae. Quassia (bitter damson)
.66	Knot-grass. Buckwheat	.2	Burseraceae. Balsam tree
.662	Centrospermae	.3	Meliaceae. Cedrela
	Chenopodiaceae. Goosefoot. Fat hen.	.4	Acaniaceae
.663	Orache. Spinach. Sugar beet	.754	Malpighiineae
.664	Amarantaceae. Foxtail	.755	Polygalineae. Milkwort
.1	Phytolaccineae	.756	Dichapetalineae
.665	Nyctaginaceae. Marvel of Peru	.757	Tricoccae. Euphorbiaceae. Spurges Dog's mercury
.669	Portulacineae. Portulacaceae Montia. Water blinks (blinking chickweed)	.759	Callitrichineae. Mud water starwort
	Caryophyllineae. Carnations. Pinks.	.76/.77	Sapindales. Celastrales
	Campions. Ragged robin. Sea purslane.	.761	Buxineae. Box
	Spurrey. Catchfly. Mouse-ear. Chickweed.	.762	Empetrineae. Crowberry
	Pearlwort. Sandwort. Soapwort. Stitchwort	.763	Coriariineae. Tanner's tree (ink tree)
.67	Ranales	.764	Limnanthineae
.671	Nymphaeaceae. Water lilies.	.765	Anacardiineae. Sumac. Poison ivy
	Ceratophyllaceae. Hornwort	.766	Celastrineae. Spindle tree. Ilcioideae
.672	Trochodendrineae. Cercidiphyllaceae. Judas tree	.771	(Aquifoliaceae). Holly
.675.1	Ranunculaceae. Buttercups. Aconites.	.772.2	Icacinineae
	Monkshood. Crowfoot. Lesser celandine.	.3	Aceraceae. Maple. Sycamore
	Anemones. Spearwort. Marsh marigolds (kingcups). Hellebores. Clematis. Old man's beard	.4	Hippocastanaceae. Horse chestnut
.3	Berberidaceae. Barberry	.773	Sapindaceae. Soapberry
.677.1	Magnoliaceae. Magnolias. Tulip tree	.774	Sabiineae. Sabiaceae
.7	Myristaceae. Nutmeg	.775	Mellanthineae. Melianthaceae
.678.1	Lauraceae. Laurel. Bay. Cinnamon tree.	.776	Didiereineae. Didiereaceae
	Camphor tree	.78	Balsaminineae. Balsaminaceae. Balsams
68	Rhoeadales	.782	Rhamnals
.682	Papaveraceae. Poppies. Greater celandine	.783	Rhamnaceae. Buckthorn. Black alder
.683.1	Capparidaceae. Capers	.789	Vitaceae. Ampelidaceae. Vines. Grapevines
.2	Cruciferae. Stocks. Cresses. Water cress.	.791	Malvales
	Mustards. Radishes. Rape. Turnip. Wild cabbage. Rockets. Candytuft. Shepherd's purse. Wood	.792	Elaeocarpineae
.684	Resedineae. Mignonette. Dyer's weed (weld)	.793	Chlaenineae
.685	Moringineae. Ben nut	.795	Malvineae
.686	Bretschneiderineae	.796	Tiliaceae. Lime tree (linden)
.69	Sarraceniales	.798	Malvaceae. Mallows. Cotton plant
.692	Nepenthaceae. Pitcher plants	.799	Sterculiaceae. Cacao (cocoa beans). Cola tree (kola)
.693	Droseraceae. Sundew. Venus flytrap	.81	Scytotopetalineae
.71	Rosales	.823	Parietales. Cistales. Caryocaraceae.
.714	Saxifragineae	.824	Butter-nut
.715	Crassulaceae. Stonecrops. Pennywort	.825	Theaceae. Camelliaceae. Tea plant
		.831	Guttiferae. Hypericoideae. St John's Wort
			Dipercarpaceae
			Tamaricineae. Tamarisk. Eliatinaceae.
			Waterworts

582.835	Cistineae. Cistaceae. Rock-roses. Bixaceae.	582.948	Boraginineae
.839	Annatto	.1	Hydrophyllaceae
.842	Cochlospermineae	.2	Boraginaceae. Borage. Lungwort. Myosotis (forget-me-not). Bugloss. Comfrey
.1	Fiocourtiineae. Stachyuraceae	.949	Verbenineae
.2	Canellaceae. Winteranaceae	.1	Verbenaceae. Verbena. Vervain
.7	Violaceae. Violets. Pansy (heart's-ease)	.2	Labiatae
.843	Passifloraceae. Passion-flower	.22	Ajugoideae. Ground ivy. Germander.
.844	Papayineae. Caricaceae. Papaw		Rosemary
.845	Loasineae	.26	Lavanduloideae. Lavender
.846	Datiscineae	.27	Stachyoideae. Deadnettle. Salvia. Sage.
.847	Begoniineae. Begonias		Clary. Melissa (balm, lemon balm). Hyssop.
.85	Ancistrocladineae		Marjoram. Thyme. Mints (spearmint, peppermint etc.)
.852	Opuntiales. Cactales		Ocimoideae. Basil
.2	Cactaceae. Cactuses	.28	Solanineae
	Malacospermae. Phyllocactus. Giant cactus.	.951	Nolanaceae. Chilean bell-flower
.4	Queen of the night. Echinocactus	.2	Solanaceae. Nightshades. Deadly nightshade (belladonna). Henbane. Paprika. Capsicum (hot peppers, chilies). Tomato. Potato.
	Sclerospermae. Opuntia. Prickly pear. Indian fig	.4	Thorn-apple. Nicotiana (tobacco). Petunia
.86	Myrtiflorae. Myrtales		Scrophulariaceae. Figworts. Eyebright
.865	Thymelaeaceae. Daphne. Spurge laurel	.6	Pseudosolanoideae. Mulleins (Aaron's rod etc.)
.866	Elaeagnaceae. Oleaster. Sea buckthorn	.62	Antirrhinoideae. Antirrhinum (snapdragon)
.871	Myrtineae. Punicaceae. Pomegranates.		Rhinanthoideae. Veronica (speedwell).
	Rhizophoraceae. Mangroves		Digitalis (foxglove). Lousewort
.872	Lythraceae. Hyssop. Purple loosestrife	.63	Bignoniaceae. Calabash tree. Trumpet tree (snakewood)
.883	Myrtaceae	.64	Pedaliaceae. Sesame
.2	Myrtoideae. Myrtles. Cloves. Pimento. Sweet peppers. Allspice		Cyrtandroideae. 'African violet' (kind of gloxinia)
.4	Leptospermoideae. Eucalyptus. Gum trees	.8	Columelliaceae. Butterwort. Bladderwort.
.884	Melastomataceae	.952.2	Globe daisy
.885	Hydrocaryaceae. Horn nut	.82	Acanthineae. Acanthus
.886	Oenotheraceae. Onagraceae. Evening primrose. Willowherb. Fuchsia		Myoporineae
.887	Halorrhagaceae. Myriophyllum (water milfoils)	.953.2	Phrymineae
.888	Hippuridinae. Mare's tail	.955	Plantaginales. Plantains (ribwort)
.889	Cynomorineae	.956	Rubiales
.89	Umbelliflorae	.957	Rubiaceae. Madder. Bedstraw (Lady's bedstraw etc.)
.892	Araliaceae. Ivy	.96	Coffeoideae. Coffee. Woodruff. Madder.
.893	Umbelliferae. Saniculoideae. Sanicle	.97	Cinchona
.6	Apiodeae. Chervil. Coriander. Hemlock.	.972	Caprifoliaceae. Honeysuckle (woodbine)
	Caraway. Cumin. Celery. Parsley. Goutweed (ground elder). Fennel. Dill. Carrot. Parsnip. Hogweed	.3	Elder. Viburnum (guelder rose etc.). Snowberry
.894	Cornaceae. Cornel (dogwood)	.973	Adoxaceae. Moschatel
.9	Metachlamydeae. Sympetaleae		Valerianaceae. Valerians. Corn-salad (lamb's lettuce)
.911	Diapensiales. Diapensiaceae	.974	Dipsacaceae. Teasels. Scabious
.912	Ericales	.975	Cucurbitales. Gourds. Cucumber. Gherkin.
.3	Pyrolaceae Wintergreen	.977	Melons. Watermelon. Pumpkin. White bryony
.4	Ericaceae	.98	Campanulatae
.42	Rhododendroideae. Rhododendrons. Azaleas		Campanulaceae. Bell-flowers. Harebell.
.46	Vaccinoideae. Bilberry (whortleberry).	.99	Lobelia. Rampion
	Cranberry (fenberry). Blueberry	.992	Compositae
48	Ericoideae. Erica. Heath. Heathers Calluna. Ling	.998	Tubuliflorae. Golden rod. Daisy. Aster.
.918	Primulales. Myrsinaceae	.2	Edelweiss. Sunflower. Dahlia. Camomile (chamomile). Tansy. Corn marigold. Yarrow (milfoil). Chrysanthemum. Artemisia.
.3	Primulaceae. Primroses. Cowslips.		Wormwood (mugwort, absinth) Tarragon.
	Pimpernel. Yellow loosestrife		Southernwood (lad's love) Arnica. Groundsel.
919	Plumbaginales. Sea lavenders. Thrift Sea pink	.999	Burdock. Thistles. Artichoke. Cornflower
.92	Ebenales. Sapotineae. Diospyrineae.		Liguliflorae. Chicory. Endive. Hawkweeds
93	Ebanaceae Ebony		Dandelion. Lettuce
931	Contortae		Other dicotyledons. Anomaliae
4	Oleineae. Oleaceae		
6	Oleoideae. Ash. Forsythia Lilac (syringa).		
.935	Olive		
	Jasminoideae. Jasmine (jessamine)		
	Loganiaceae. Strychnos. Nux vomica.		
.936	Buddleia		
.2	Gentianaceae	59	ZOOLOGY
.4	Gentianoideae Gentians. Centaury	Special auxiliary subdivisions	
.937	Menyanthoideae. Buckbeam (marsh trefoil)	59.018	External characteristics and traits
.2	Apocynaceae. Dog's-banes		59.018 $\approx$ 57.018
.4	Plumierioideae. Periwinkle	.08	Zoological techniques. Experimental methods.
.938	Echitoideae. Oleander		Equipment
	Asclepiadaceae. Greater celandine (swallow-wort). Silkweed (milkweed)		59.08 $\approx$ 57.08
.94	Tubiflorae	Principal division	
.942	Convolvulaceae. Convolvulus (bindweed).	591	GENERAL ZOOLOGY
	Batata (sweet potato)	Special auxiliary subdivisions	
.943	Polemoniaceae. Jacob's ladder	591-2/-9	Concepts of general zoology related to particular animals and classes of animal
.947	Lennoineae		

591-2/-9 (cont'd)	591-2/-9 $\approx$ 592/599	591.132.5	Physiology of the midgut. Intestinal juice.
591 04	Physics and chemistry of cells and organisms in general. Absorption	.8	Pancreatic juice. Bile, gall
.041	Influence of nucleus and protoplasm. Irritability in general —591.181	.133	Regurgitation. Expulsion of indigestible elements in food through the mouth. Castings. Pellets
.044	Effect of physical and chemical factors of the environment on cells and organisms. Osmosis. Tropisms in general. Heliotropism. Phototropism. Effect of poisons Atmospheric pressure —591.185; 591.5	.1 .2	Physiological chemistry of foods and nutrition Foods. Nutrients Synthetic metabolism. Assimilation of foods and nutrients. Enzymes. Ferments. Anabolism. Catabolism
.046	Combined effects of cells and organs. Synergism. Division of labour	3	Food reserves and food storage in the animal body
.047	Transport of material in the body —591.41	.134 .135	Growth Physiology of the hindgut. Defecation. Evacuation of intestine
05	Physiological chemistry and metabolism in general. Composition of the body —591.133.2; 591.149	.137 .139	Uptake of nutrients and digestion in Protozoa Senescence. Phenomena of ageing. Length of life. Rejuvenation. Death. Causes of death
Principal divisions		.14	Secretions. Excretions. Lymph. Glands in general
591.1	Animal physiology —612	.141	Cutaneous secretions. Skin glands (function). Sweat glands. Lacrimal glands etc
.11	Blood. Body fluids in general. Circulation	.142	Secretions in Protozoa
.111	General chemical and physical properties of blood	.143 .144	Serum. Serous fluids. Serous cavities Lymphatic system of vertebrates (function). Spleen
.1	Composition of the blood. Erythrocytes (red corpuscles). Leucocytes (white corpuscles). Thrombocytes (blood platelets) Plasma (blood fluid). Serum. Fibrin	.145	Poisons. Poison glands. Toxins. Antitoxins —631.178.8
.2	Blood pigments. Haemoglobin. Haemocyanin. Echinochrome. Chlorocruorin. Haemerythrin. Achroglobin	.146 .147	Secretions of the mammary glands. Milk Internal secretions. Endocrine secretions. Hormones. Adrenalin. Insulin Sex hormones. Androgens. Oestrogens —577.17
.3	Congeaing, clotting, coagulation of blood. Haemolysis	.148	Luminescence (bioluminescence)
.4	Physical properties of blood. Temperature. Viscosity. Osmotic pressure	.149	Excretions. Catabolism. Urine formation. Excreta (faeces). Sepia etc.
7	Phagocytosis. Ingestion of foreign substances by leucocytes	.15	Variation. Heredity —575.1/.2; 636.082
.8	Reticulo-endothelial defence systems. Antibodies. Precipitin reaction	.151 152	General polymorphism. Dimorphism Geographic variation. Acclimatization
.112	Circulation of blood	.153	Heterophagous variation
.1	Physiology of cardiac muscles. Stimulus formation. Sensitivity. Frequency of heartbeat	.155	Mimicry. Imitative (mimetic) variation
.2	Activity of the heart. Valves Cardiac sounds	.156 .157	Sexual polymorphism Variation of colour. Coloration (pigmentation). Albinism. Melanism —57.018 634; 572.522
.3	Cardiac beat. Electrocardiogram	.158	Cross-bred (bastard) forms. Mongrels. Hybrids
.4	Blood pressure. Blood flow	.159	Monstrous forms. Terata (monsters). Anomalies. Abnormalities
.5	Vascular nerves. Vasomotor fibres	.16	Generation. Procreation. Reproduction. Breeding. Biogenesis —57.017.5; 591.56; 636 082
.6	Pressoreceptor nerves	.161	Abiogenesis (spontaneous generation) —573.5
.113	Blood volume. Circulation time	.162	Parthenogenesis
.115	Fluctuations without circulation	.163	Paedogenesis. Reproduction in immature stages. Larval reproduction. Pupal reproduction
.12	Haemolymph. Lymph of invertebrates	.164	Division (fission) in Protozoa
.121	Fluid pressure inside a body. Turgor	.165	Vegetative propagation. Asexual reproduction. Gemmation. Fragmentation etc.
.122	Respiration. Breathing	.166	Gonochorism. Differentiation of sexes. Sexual reproduction in general
.123	General physiology of respiration	.1	Mating. Copulation (including that of Protozoa)
.124	Respiration over whole body surface. Cutaneous respiration	.5	Alternation of generations. Metagenesis. Alloecogenesis
.125	Respiration by aquiferous organs. Respiration by swim bladders etc.	.167	Hermaphroditism. Autogamy
.126	Intramolecular respiration	.169	Regeneration. Sloughing. Moulting. Replacement
.127	Respiration by branchiae	.8	Autotomy. Self-amputation
.128	Respiration by tracheae	.17	Movement. Locomotion. Physiology of the skeleton and organs of locomotion
.129	Respiration by lungs	.171	Locomotion by legs. Walking. Running
.130	Animal heat. Body temperature. Warm-blooded, cold-blooded animals. Insulation	.172	Reptation. Crawling. Slithering
.131	Nutrition. Inanition —591.53	.173	Swimming. Floating
.132	Seizure and comminution of food	.174	Flying. Gliding
.1	Act of feeding in general. Feeding behaviour. Ways of ingesting	.175	Physiology of the muscles
.2	Killing of prey	.176	Skin. Pigment. Colouring matter
.3	Mastication. Saliva. Salivary acid		
.4	Digestion outside mouth. Secretions for dissolution of nutrients outside mouth		
.132	Digestion —577.15		
.2	Physiology of the stomach. Gastric juices		
.3	Rumination		
.4	Vomiting		

591.177	Mechanics of the skeleton and joints	591.412	Heart
.178	Protoplasmic movement. Ciliary movement	.413	Vessels. Arteries. Aorta
.18	Functions of the nervous system	.414	Veins. Portal vein
.181	Excitability and physiology of the nerves in general. Electrophysiology	.415	Capillaries
.182	Nerves and muscles. Tonus. Reflex movements	.416	Vessels in the lower animals. Lacunae.
.185	Senses (reception). Tropisms	.417	Gastrovascular system
	—576.333	.42	Echinoderm ambulacral system. Madreporites
.1	Faculty of orientation	.421	Respiratory organs
.2	Mechanical senses. Touch (tactile sense).	.422	Nose
	Sense of gravity (georeception). Sense of balance (equilibrium). Sense of temperature (thermoreception). Sense of fluid flow (rheoreception)	.423	Larynx. Glottis. Vocal cords. Tympanum.
.3	Chemical sensitivity (chemoreception). Taste (gustation). Smell (olfaction)	.424	Syrinx
.5	Sense of hearing (audition)	.425	Trachea (in vertebrates). Windpipe. Bronchi
.6	Sense of light (photoreception). Sight. Vision	.426	Lungs
.186	Hypnosis	.428	Pleura
.187	Responses to stimuli in Protozoa	.429	Diaphragm
.2	Diseases of (undomesticated) animals.	.43	Branchiae. Branchial arches. Gills
	Animal pathology	.430	Other respiratory organs. Tracheae. Swim bladders
	—619; 636.09	.431	Organs of nutrition
	591.2 = 591.4	.1	Organs of nutrition in Protozoa
	<i>Denote species by :592/599, diseases by :616...</i>	.2	Mouth
.3	Animal embryology. Animal ontogeny.	.3	Proboscis for seizing food. Chitinous mandibles. Aristotle's lantern (in echinoderms)
	Development of the individual organism	.4	Mouth appendages of arthropods
.31	Primary development of the egg. Fertilization. Segmentation etc.	.5	Tongue. Radula (in molluscs)
.32	Formation of the embryonic rudiments	.6	Teeth
.33	Embryonic development without larval stage. Ectoderm. Endoderm. Mesoderm.	.7	Keratinous formations. Beaks. Horny plates. Baleen etc.
	Mesenchyme	.432	Oral glands. Salivary glands. Buccal glands.
.34	Metamorphosis. Larval stage	.433	Silk glands in Lepidoptera. Oral poison glands
.341	Swarm cells (zoospores)	.434	—591.145
.342	Larval forms of arthropods. Caterpillars.	.435	Cheek pouches (buccal pouches)
.343	Maggots. Pupae. Chrysalises	.436	Pharynx. Oesophagus. Gullet. Crop
.35	Larval forms of Tunicata and vertebrates	.437	Stomach. Ventriculus. Gizzard
	Young animals	.438	Gut. Intestine. Caecum. Rectum
	Special auxiliary subdivision	.439	Anus. Vent. Cloaca. Ink sac (in cephalopods)
591.35.02	Twinning research. Multiple births. Twins etc.	.44	Hepar. Liver. Midgut glands of invertebrates.
	Principal divisions	.441	Gall bladder
591.351	Duration of development stage, to sexual maturity	.442	Pancreas. Hepatopancreas
.36	Sexually mature animals	.443	Caeloma. Body cavities. Peritoneum
.366	Length of interval between breeding seasons (heats, ruts). Gestation period. Suckling period	.444	Corpora adiposa (fatty bodies)
	—636.082.455	.445	Lymphatic system of vertebrates
.37	Hybridization. Crossing, cross-breeding. Interbreeding	.446	—591.144
	—591.158; 636.082.26	.46	Spleen
.38	Inbreeding. Consanguineous breeding	.461	Lymphatic vessels. Lymph ducts. Lymph nodes
	Breeding in-and-in	.462	Thymus
	—636.082.25; 636.082.41	.463	Thyroid gland. Parathyroid gland
.39	Experimental embryology. Mechanics of development	.1	Suprarenal glands. Suprarenal medulla
.391	Experiments on ova and spermatozoa	.2	Lymph glands
.392	Experimental alteration of embryonic development. Determination of power of development	.3	Urogenital system. Excretory organs. Sexual organs. Gonads. Sex glands
.393	Experiments on larvae. Experimental alteration of metamorphosis	.4	Excretory organs. Kidneys. Nephros
.398	Experiments on surviving embryonic parts	.5	Urinary organs. Ureter. Urinary bladder
4	Study of animal organs. Animal organology.	.6	Male genital organs
	Animal anatomy. Zootomy	.1	Sperm. Spermatogenesis
	—611	.2	Testes
	Special auxiliary subdivisions	.3	Scrotum
591.4.068.1	Change of function	.4	Prostate
.2	Atrophy	.5	Spermatophores
.3	Transitory organs	.6	Vas deferens
.4	Rudimentary organs	.464	Male copulatory organs
.5	Homologous organs	.1	Penis
.6	Analogous organs	.3	Bulbus. Hectocotylus. Pterygopodia. Spadix.
	Principal divisions	.6	Spicula
591.41	Circulatory organs. Circulatory system.	.465	Secondary sexual characteristics. Scent glands. Vocal organs
.411	Angiology	.1	Female genital organs
	Pericardium	.11	Oögenetic processes
		.2	Ova. Eggs
		.3	Oviduct
		.466	Gonads. Ovaries
		.467	Uterus. Uterine glands. Shell glands (in Platyhelminthes)
		.1	Female copulatory organs
		.2	Vagina
		.3	Vulva. Hymen
			Ovipositor. Ovipositor spike

591.467.4	Receptaculum seminis	591.486	Organs of smell. Nose
469	Mammæ. Milk glands. Teats. Udders	.487	Organs of taste. Chemoreceptors in general
47	Organs of motion, locomotion	.488	Mechanical sense organs. Organs of touch, heat sense, balance. Labyrinthine organs.
471	Skeleton		Lateral line
.1	Skeleton formations in Protozoa.		Somatology. Shape of the animal body
.2	Integuments. Scales. Shells. Endoskeleton	.49	Personæ corporum. Zooids. Proglottides
.21	Skeletons of invertebrates	.491	Antimeres (actinomeres). Parameres.
.22	Spongiaria. Sponges. Spicules	.492	Metameres (meromes). Bodily symmetry
.23	Cnidaria. Nematophores. Supportive lamellæ.	.493	Head
	Calcareous structures of corals	.494	Cephalothorax. Neck
.24	Echinoderma. Calcareous plates. Pedicellaria	.495	Thorax. Chest
	Spines	.496	Abdomen. Hindquarters
.25	Mollusca. Operculum. Maxilla. Shells.	.497	Tail
.26	Cuttle-bone	.498	Extremities. Limbs. Antennæ, feelers. Beaks, bills etc.
.27	Brachiopoda. Shells. Calcareous spicules	.499	Body appendages. Elytra (wing-cases). Insect wings. Tentacles etc.
.28	Annelida. Integument. Parapodia	.5	Animal habits. Animal behaviour. Ecology. Ethology. Animal and environment. Bionomy
.29	Arthropoda. Chitinous exoskeleton. Larval integument		—591.131.1, 631.95
.3	Tunicata. Chorda dorsalis, notochord. Mantle	.51	Psychology of animals. Animal intelligence.
.31	Skeletons of other invertebrates		Instinct
.32	Osteology. Skeleton of vertebrates	.511	Theory and philosophy of animal psychology.
.33	Exoskeleton. Ganoid scales. Placoid scales.	.512	Animal souls
.34	Cutaneous teeth. Bony plates	.513	Instinct. Instinctive behaviour. Brood care.
.35	Vertebral column and spinal cord		Courtship etc.
.36	Ribs and breastbone	.52	Learning. Learning mechanisms. Learned behaviour. Conditioning
.37	Scapular arch. Shoulder girdle	.521	The animal in relation to the area
.4	Pelvic girdle		—574.91
.41	Unpaired limbs	.522	Style of habitation. Lairs. Dens. Underground dwellings. Burrows. Earths. Nests as dwellings
.42	Paired limbs. Fins. Wings. Arms. Hands.	.523	Habitat
.43	Legs. Feet	.524	Single migrations
.44	Skull. Cranium		Special adaptations of animal species to territory (organizational adaptations)
.472	Cartilaginous skull in elasmobranch fishes	.525	Aquatic animals
473	Skull bones in general		Land-dwelling (terrestrial) animals
1	Visceral cranium. Facial skeleton	.526	Special adaptations of individual animals to changes in conditions of life (regulatory adaptation)
.2	Cerebral cranium	.53	Population density of an animal species.
.3	Articulations, joints. Ligaments. Articular membranes (in Arthropoda). Hinges (in bivalves)		Reproduction rate. Birth rate. Destruction rate. Death rate
.474	Muscle. Myology		Nutrition. Animal nutrients, foodstuffs
.475	Fibrils of unicellular animals. Myoneme		Special auxiliary subdivision
.476	Muscular system of invertebrates.	591.53.063	Diet. Dietary changes
.477	Myoseptum. Ambulacral feet. Epithelial muscle cells (in Cnidaria). Foot, siphon (in Mollusca)		Principal divisions
.478	Muscular system of vertebrates. Voluntary, involuntary muscle	591.531	Classification of animals according to dietary preference
.479	Electric organs		—591.13; 591.557
.48	Tendons	.1	Plant eaters in general. Herbivores.
.481	Mucus sac	.2	Phytophages
.482	Connective tissue. Parenchyma. Mesoderm. Mesenchyme	.22/.29	Animal eaters in general. Flesh eaters.
.483	Skin. Suckers. Mantle (in Mollusca etc.)	.3	Carnivores. Sarcophages. Predators
.484	Ectoderm. Suckers. Chaetæ. Mantle	.4	Carnivores according to prey
.485	Entoderm		591.531.22/.29 ≈ 592/599
.486	Epidermal glands. Skin glands. Sweat glands		Animal-and-plant eaters. Omnivores.
.487	Sebaceous glands. Mucus glands. Scent glands. Lacrimal glands. Mammary glands.		Pantophages
.488	Silk glands. Sting glands		Animals with peculiar diets. Mud, sand, dust eaters. Carrion eaters. Scavengers. Dung eaters. Coprophages
.489	Poisonous (venomous) organs. Stings	.532	Classification of animals according to diversity of diet. Polyphages (diverse feeders).
.490	—591.431.6	.536	Oligophages (selective feeders). Monophages (specialized feeders)
.491	Luminous organs	.538	Assembly of food stores, larders. Food hoarders
.492	Keratinous formations. Hair. Bristles. Prickles	.54	Nutritional requirements according to mode of life
.493	Claws. Talons. Hoofs. Feathers. Scales.	.541	Climatic conditions. Influence of seasons
.494	Horns	.542	Water
.495	Pseudopodia. Cilia. Flagella. Cirri. Trichocysts	.543	Light. Cave animals (cavernicoles). Demersal (deep-sea) animals. Diurnal and nocturnal animals. Sleep
.496	Nervous system		Climate. Cold-weather (cryophilic) animals.
.497	Central nervous system		Warm-weather (thermophilic) animals
.498	Brain of vertebrates. Encephalon. Cerebellum		
.499	Hypophysis (pituitary body)		
.500	Epiphysis (pineal body). Parietal organ (pineal eye)		
.501	Ganglia in general		
.502	Neurons (neurones)		
.503	Spinal cord		
.504	Peripheral nervous system. Sympathetic nervous system. Nerves		
.505	Organs of sight		
.506	Eyes of vertebrates		
.507	Parietal eye		
.508	Organs of hearing. Ears		

591.543.4	Alteration of climatic conditions. Seasons	591.615	Protection and care of animals. Winter feeding
.41	Dormant germs. Dormant eggs. Encysting		Deliberate use of animals by humans to combat other animals
.42	Aestivation (estivation). Hibernation.	.617	—632.937
	Suspended animation		Deliberate use of animals by humans to control plants
.43	Seasonal migration. Bird migration. Migration to spawning grounds	.618	—632.937
.544	Cosmic influences. Sun. Moon. Cosmic radiation	.619	Diseases and pests of useful and harmful animals
.545	Seasons and reproduction. Spawning season. Rutting, mating season	.65	Harmful animals
.55	—636.082.45		—632.6/.7
.551	Communal life. Animal societies	.67	Disease-spreading animals
	Relation between the sexes. Pairing (cohabitation) of sexes. Devices for location and recognition of the sexes by each other.	.68	Animals that damage inanimate things
	Rut. Fighting among males, sparring.	.69	Parasites
	Courtship rituals	.8	—576.8; 581.557; 591.557
	—591.464.6; 591.58		Animal histology
.552	Relations between members of a species. Gregarious formations. Herds. Flocks. Colonies. Associations		<i>Denote microstructure of a particular organ by</i>
.553	Biocoenoses (animal communities)	.81	:591.4...
.554	Animal fighting beyond the degree necessary for provision of food	.82	Histology of the cell
.555	Sources and motives of sociological phenomena in animals	.83	Histology of the connective tissue
	591.555 $\approx$ 301.15	.84	Histology of the cartilage (chondrus)
.557	Relations between individuals of different species. Commensalism. Synoeketism.	.85	Histology of osseous tissue (bone)
	Parasitism. Symbiosis	.86	Histology of blood and lymph.
	—576.8; 581.557; 591.69	.87	Chromatophores
.6	Symbiosis (living together with mutual advantage)	.88	Histology of muscle tissue (myoplasm)
.7	Commensalism (living together with one-sided advantage but without damage to the host). Synoeketes	.9	Histology of the epithelium
.8	Parasitism (obtaining food at expense of host)	.91	Histology of the nerve tissue. Nerve cells, Nerve fibres
.56	Provision for posterity. Care of young. Brood care	.92	Geographic zoology. Zoogeography. Fauna.
.561	Passive brood care	.93	Geographic distribution of animals
.562	Active brood care in general	.94	—574.91; 591.523
.563	Nest building. Egg cocoons. Insect structures	.95	<i>Details by place auxiliaries, e.g.</i>
.564	Conveying of eggs and embryos (larvae) to feeding grounds	592/599	591.9(23.03) High-mountain fauna
.565	Lodging of eggs and embryos in or on the body of the parent animal		(26) Marine fauna
.566	Skin folds. Pouches. Marsupium		Means of distribution
.567	Viviparity		Obstacles to distribution
.568	Care and feeding of the young		Significance of antecedents in distribution
.57	Defence. Attack		Faunal relicts
.571	Behaviour when in danger. Alarm response. Flight		Human interference with fauna
.572	Protective adaptations of the body		
.1	Shells and armour of body materials. Spines. Quills		SYSTEMATIC ZOOLOGY
.4	Mucus and wax secretion		—562/569; 57.06
.5	Stinging capsules. Poisonous spines. Irritant hairs. Poisonous juice. Venom. Repellent fluids. Sepia		Special auxiliary subdivisions
6	Production of alarm calls. Warning signals	[592/599]-1	Aspects of general zoology applied to particular animals
.7	Warning and deterrent colours and markings		[592/599]-1 $\approx$ 591
8	Protective imitation. Mimicry. Adaptive coloration		
.573	Autotomy as defence mechanism		Principal divisions
.574	Cleanliness	592	Invertebrata
.576	Protective colouring. Camouflage	593.1	Protozoa
.577	Weapons for attack (offence)	.11	Rhizopoda in general
.58	Communication and expression by sound or ultrasonic vibrations, mime or other signals, smell, touch or chemical sense (chemoreception)	.12	Amoebozoa. Foraminifera
.6	Economic zoology. Applied zoology	.13	Heliozoa
	—636; 638; 639	.14	Radiolaria. Marine plankton
.61	Utility of animals	.16	Flagellata (Mastigophora)
.611	Hunting and capture of animals	.161	—582.251/.252
.612	Training in captivity. Breaking in. Domestication	.3	Eulagellata. Trypanosomatidae
.613	Breeding. Rearing	.4	Euglenidae
		.52	Chromomonadina
		.162	Volvocidae
		.163	Dinoflagellata. Peridiniidae
		.17	Cystoflagellata. Noctiluca
		.171	Ciliata (Infusoria)
		.172	Holotricha. Paramaeciidae
		.173	Heterotricha. Stentoridae
		.174	Oligotricha
		.175	Hypotricha
		.176	Peritricha
		.19	Suctorina
		.191	Sporozoa
		.192	Gregarinida
		.193	Coccidiomorpha
		.194	Sarcosporidia
		.195	Myxosporidia
		.3	Microsporidia
		.4	Coelenterata
		.41	Spongiaria (Porifera). Sponges
		.42	Myxospongia. Slime sponges
			Ceratoppongia. Horny sponges

593.43	Monactinellida (Halichondriidae). Breadcrumb sponge. Freshwater sponges	595.12	Platyhelminthes. Flatworms
.44	Tetractinellida	.121	Cestodes. Tapeworms
.45	Hexactinellida. Glass sponges	.122	Trematodes. Flukes. Liver fluke
.46	Calcispongiae. Purse sponges	.123	Turbellaria. Triclad. Planarians. Polyclads
.5	Cnidaria	.124	Nemertini. Ribbon-worms
.6	Anthozoa. Corals	.13	Nemathelminthes
.61	Rugosa. Tetracoralla	.131	Nematomorpha. Horsehair-worm (threadworm, hairworm)
.62	Alcyonaria. Octocoralla. Precious corals. Fan-coral. Organ-pipe coral	.132	Nematodes. Roundworms. Threadworm. Eelworm. Vinegar eel. Gapeworm. Hookworm
.63	Zoanthiniaria. Hexacoralla	.133	Acanthocephali. Echinorhynchidae. Spiny-headed worms
.65	Actiniaria. Sea anemones	.135	Chaetognatha. Arrow-worms. Sagitta
.66	Madreporaria	.14	Annelida. Segmented worms in general
.67	Tabulata	.142	Chaetopoda. Polychaeta (bristle worms). Lugworms. Sea-mouse. Myzostomaria. Feather-stars. Oligochaeta. Freshwater worms. Earthworms
.7	Hydrozoa. Polyps. Medusas	.143	Hirudinea. Leeches. Horse-leech. Duck-leech etc.
.71	Hydroidea	.144	Echiuroidea. Spoonworms
.711	Hydrariae. Hydridae	.145	Sipunculoidea
.712	Tubulariae (Anthomedusae)	.18	Rotatoria. Rotifers (wheel animalcules)
.714	Campanulariae (Leptomedusae)	.2	Arthropoda in general
.715	Trachymedusae	.3	Branchiata. Crustacea
.719	Graptolithes. Graptolites	.31	Entomostraca in general
.72	Siphonophora. Portuguese men-of-war	.315	Pantopoda. Pycnogonids (sea-spiders)
.73	Scyphozoa. Jellyfish. Scyphomedusae. Acalephae	.32	Phyllopoda
.74	Stauromedusae. Calycozoa. Stalked jellyfish	.323	Euphyllipoda. Fairy shrimps
.75	Rhizostomeae	.324	Cladocera. Daphnia (water fleas)
.76	Lobomedusae	.33	Ostracoda
.8	Ctenophora. Comb-jellies. Sea-gooseberries. Sea-walnuts	.34	Copepoda. Cyclopes. Fish-lice
.9	Echinoderma	.35	Cirrepedia. Barnacles. Acorn-barnacle. Ship's barnacle etc.
.91	Pelmatozoa. Crinoidea. Featherstars. Sea-lilies	.36	Malacostraca in general
.92	Asterozoa	.37	Arthrostraca
.93	Asteroidea. Starfish	.371	Amphipoda. Freshwater shrimps. Sandhoppers. Sand-shrimps
.94	Ophiuroidea. Brittlestars	.373	Isopoda. Woodlice (slaters). Water-lice. Gribbles. Sea-slaters
.95	Echinoidea. Sea-urchins. Cake-urchins. Heart-urchins	.38	Thoracostraca. Cumacea. Stomatopoda
.96	Holothurioidea. Sea-cucumbers	.383	Schizopoda. Mysids (opossum shrimps)
.99	Hemichordata. Enteropneusta. Acorn worms	.384	Decapoda
594	Mollusca. Shellfish etc.	.1	Macrura. Shrimps. Prawns. Lobsters
.1	Lamellibranchiata (Pelecypoda). Bivalves. Mussels etc.	.2	Crawfish (spiny lobster). Crayfish
.11	Anisomyaria. Seal-mussels. Common mussels. Scallops. Clams. Oysters	.4	Brachyura. Crabs in general
.13	Homomyaria	.5	Oxystomata
.14/.17	Heterodonta	.6	Ixtyrhyncha. Spider crabs
.141	Nayadidae. Unionidae. Freshwater mussels	.7	Cyclometopa. Edible crabs. Swimming crabs (fiddler crabs)
.151	Cardiidae. Cockles	.8	Catametopa. Pea crabs
.18	Desmodonta. Gapers (soft clams) Ship-worm	.39	Anomura. Hermit crabs. Soldier crab
.3	Gastropoda. Univalves. Snails etc.	.392	Palaeostraca
.31	Amphineura. Chitons. Coat-of-mail shells	.393	Xiphosura. King-crabs
.32	Streptoneura. Prosobranchia. Operculates. Limpets. Top shells. Wentletraps. Cowries. Winkles (periwinkles). Whelks. Spire shells. Cone shells	.4/.7	Trilobita. Trilobites
.34	Heteropoda	.4	Tracheata
.35	Opisthobranchia. Sea slugs	.41	Arachnoidea. Arachnids in general
.36	Nudibranchiata. Common grey sea slug. Sea lemon	.42	Linguatulidae. Tardigrades (water bears)
.37	Tectibranchiata. Sea-hares	.43	Acarina. Mites. Soil-mites. Itch-mites. Ticks. Sheep-tick. Fowl-tick etc.
.38	Pulmonata. Lung-bearing gastropods. Land snails. Garden snails. Slugs. Water snails (freshwater snails)	.44	Opiliones. Harvestmen (daddy-longlegs)
.5	Cephalopoda	.45	Araneida. Spiders. House-spider. Garden-spider. Money-spider etc.
.51	Tetrabranchiata	.46	Bird-spiders. Tarantulas
.52	Nautiloidea	.47	Pedipalpi. Whip-scorpions. Scorpion-spiders
.53	Ammonoidea. Ammonites	.48	Scorpionidea. Scorpions
.55	Dibranchiata	.5	Pseudoscorpionidae. False scorpions. Chelifers
.56	Octopoda. Octopuses	.6	Solifugae
.58	Decapoda	.7	Protracheata (Onychophora). Peripatidae
.581	Belemnoidea. Belemnites	.71	Myriapoda. Diplopoda (millipedes). Chilopoda (centipedes). Symphyla. Pauropoda
.582	Sepioidea. Squids. Cuttlefish	.72	Insecta (Hexapoda). Insects. Entomology
.6	Molluscoidea (Tentaculata)	.721	Apterygogenea. Collembola (spring-tails, snow fleas). Thysanura (bristle-tails, silverfish)
.7	Bryozoa. Ectoprocta. Polyzoa. Moss animalcules. Sea-mat	.722	Orthoptera
.8	Brachiopoda. Lamp-shells	.724	Dermaptera. Forficulidae. Earwigs
.9	Tunicata (Urochordata). Sea-squirts		Blattodea. Blattidae. Cockroaches. Blackbeetles
595	Articulata		Phasmodea. Phasmatidae. Stick-insects
.1	Vermes. Worms. Helminths		
.11	Scolecida		

595.725	Mantodea. Praying mantis	595.789	Rhopalocera (Papilionina). Butterflies.
.727	Acrididae. Short-horned grasshoppers.		Hairstreaks. Vanessids. Red admiral. Painted lady. Camberwell beauty. Peacock butterfly.
.728	Common grasshoppers		Tortoiseshells. Swallowtail. Apollo. White butterflies. Cabbage white etc. Brimstone butterfly
	Locustidae. Long-horned grasshoppers.		Hymenoptera
729	Locusts	.79	Entomophaga. Ichneumon flies. Gall wasps.
	Gryllidae. Crickets. House-cricket.	.792	Chalcid wasps
	Field-cricket. Mole-cricket. Bush-crickets		Symphyla. Sawflies. Borers. Wood-wasps (horn-tails)
	(great green grasshopper etc.)	.793	Aculeata. Stinging insects in general
.73	Archiptera		Chrysididae. Ruby-tail wasps
.731	Thysanoptera (Physopoda). Thrips	.794	Formicidae. Ants
.732	Corrodentia. Termites. Woodlice. Booklouse	.795	Sphecidae. Sand-wasps. Digger wasps
.733	Odonata. Damsel-flies. Dragonflies	.796	Vespidae. Social wasps. Wasp (common wasp). Hornet
.734	Ephemeroidea. Mayflies	.797	Apidae. Bees. Honeybee. Bumblebees (bumblebees). Leaf-cutting bees. Mining bees. Carpenter bees
.74	Neuroptera. Lacewings. Sponge-flies.	.798	Vertebrata. Vertebrates in general
	Ant-lions. Caddis-flies		Pisces. Fishes. Ichthyology
.75	Hemiptera (Rhynchota)	596	—639.2
751	Aptera. Lice. Nits. Crab-lice ('crabs')	597	Acrania (Leptocardia). Branchiostomidae.
.752	Phytophages. Plant-lice. Aphids. Greenfly.		Lancelets
	Blackfly. Coccids. Scale-insects. Mealybugs.	.1	Cyclostomata (Marsipobranchii) Lampreys.
	Lac-insects. Cochineal insects	.2	Hagfishes
753	Homoptera. Auchenorrhyncha Cicadas.	.3	Elasmobranchii (Plagiostomata). Cartilaginous fishes. Selachii. Sharks etc.
	Leaf-hoppers	.32	Diplospondyli. Hexanchidae
.754	Heteroptera. Hemiptera. Bugs Plant-bugs.	.33	Asterospondyli. Dogfish. Tope. Blue shark.
	Barkbugs etc. Bedbugs (chinchies).		White shark (man-eating shark).
.76	Water-bugs. Water-boatmen. Pond- skaters	.34	Hammerhead shark. Basking shark (sail-fish)
762	Coleoptera. Beetles	.35	Cyclospodiyli
	Adephaga. Carabids (ground-beetles). Water		Tectospondyli. Sawfish. Skates. Rays Electric ray. Stingray. Eagle-ray
	beetles. Diving beetles. Whirligigs.	38	Holocephali. Chimaeras. Rabbit-fish
763	Tiger-beetles	.4	Ganoidei
	Palpicornia. Staphylinidae. Scavenger	.41	Amioidei (Cycloganoidea). Bowfin (grindie)
	beetles. Burying beetles. Carrion beetles.	.44	Chondrostei. Sturgeons. Hausen Sterlet
	Rove beetles. Skipjacks (click beetles,	.46	Crossopterygii
	wireworms). Ladybirds (ladybugs)	.47	Heterocerci. Lepidosteus (bony pike)
.764	Lamellicornia. Scarabeidae. Dung-beetles.	.48	Dipnoi. Barramunda (lungfish) Lepidosirens (mudfish)
	Chafers. Cockchafer (maybug, rookworm).	.5	Teleostei. Bony fishes
	Summer chafer (June bug). Garden chafer	.53	Lophobranchii. Catosteomi. Sticklebacks (tinkers, tittlebats). Pipefish. Needle-fish (horn-eel). Sea-horse
	(bracken clock) Lucanidae. Stag beetles	.54	Plectognathi. File-fish. Trunk-fish Globe-fish. Sunfish
	Rhinoceros beetles	.55	Physostomi
.766	Malacodermata. Fossipedes. Teredilia.	553	Malacopterygii
	Glow-worms Fireflies	.1	Clupeidae. Herring. Sprat. Anchovy. Pilchard (sardine) Shads
.767	Heteromera. Spanish fly (blister beetle)	2	Salmonidae. Salmon. Trout. Char. Grayling. Smelt (sparling). Whitefish. Vendace. Pollan etc.
	Cardinal beetle. Hardback beetles	554	Ostariophysii
	(mealworms)	1	Characinidae. Piranha
768	Phytophaga. Rhynchophora. Longhorn	.2	Gymnotidae. Electric eel
	beetles. Timberman Musk beetle Leaf	.3	Cyprinidae. Carp. Goldfish. Crucian Tench.
	beetles Colorado beetle Weevils Bark		Barbel. Bleak. Chub. Dace Gudgeon.
	beetle		Bitterling. Rudd. Roach. Bream Loach.
77	Diptera. Flies	4	Minnow
771	Nematocera (thread-horns) Crane flies.	555	Siluridae. Wels. Sheat-fish. Catfish
	Gnats. Midges Mosquitoes Black flies	556	Apodes. Eels. Conger. Moray (murry)
	(Simuliidae)	56	Haplomi. Pike. Luce
772	Brachycera (short-horns). Tabanids. Horsefly.		Anacanthini. Hake. Cod. Haddock Whiting.
	Gadfly. Batts. Soldier flies Snipe flies.	58	Burbot (eel-pout). Ling
	Window flies		Acanthopterygii. Serranidae (bass) Mullidae (red mullet, surmullet). Gobiidae (gobies).
773	Cyclorapha		Triglidae (gurnard). Cottidae (bullhead, miller's thumb). Blenniidae (Blenny Shanny).
1	Aschiza Syrphids. Drone-flies Hover-flies		Lophiidae (angler fish)
4	Schizophora. Bluebottles (blowflies)	.583.1	Percidae. Perch. Pike-perch. Barracuda.
	Warble-flies. House-flies. Flesh-flies	.584.2	Archer fish
	Fruit-flies Dung-flies Gall-flies Leaf miners	.587.2	Labridae. Wrasse
774	Pupipara	.5	Scombridae. Mackerel. Tuna (tunny)
775	Aphaniptera (Siphonaptera) Fleas Chigoes		Xiphiidae. Swordfish
	(chiggers, jiggers)		
78	Lepidoptera Butterflies Moths		
782	Microlepidoptera Smaller moths Clothes		
	moth		
783	Macrolepidoptera Larger moths and		
	butterflies in general		
785	Geometridae. Geometers (loopers)		
786	Noctuidae (Caradrinidae) Underwings		
	Cabbage moth Turnip moth		
787	Bombyces Silkworm Goat-moth Nun-moth		
	Emperor-moth Lackey-moth Eggar-moth		
	Lappet-moth		
788	Sphingidae Hawk-moths. Death's head		
	hawk-moth. Eyed hawk-moth		

597 587.9	Pleuronectidae. Flatfish. Dab. Halibut.	598.42	Longipennes
	Flounder (fluke). Plaice. Turbot. Sole	.421	Procellariidae. Albatrosses. Fulmar.
591	Symbranchii. Amphipnoidae		Shearwaters. Petrels
.592	Nothacanthiformes	.422	Laridae. Gulls (seagulls). Kittiwake. Terns
593	Percesoces. Grey mullet. Garfish (sea-pike).	.43	Steganopodes. Tropicbirds. Gannet. Boobies.
	Saury (skipper). Sand-eel (launce). Climbing perch. Flying fish	.44	Frigatebirds. Cormorant. Shag. Pelicans
594	Opisthomi. Mastacembelidae		Pygopodes. Auks. Razorbill. Guillemot. Puffin.
.6	Amphibia (Batrachia). Amphibians in general	.45	Divers. Grebes
7	Gymnophiona (Apoda). Caeciliidae	.5	Spheniscidae (Impennes). Penguins
8	Anura (Salientia). Tailless amphibians	.51	Ratitae. Flightless birds
.81	Aglossa. Pipa (Surinam toad). Xenopus	.52	Struthionidae. Ostriches
82	Phaneroglossa. Frogs. Toads. Hylidae	.53	Rheidae Rheas. Nandus
	(Tree-frogs. Tree-toads). Bufonidae (Common toad. Natterjack etc.). Ranidae (Common frog. Edible frog. Bullfrog etc.)	.6	Megistanes. Cassowaries. Emus. Kiwi.
9	Urodela (Caudata). Tailed amphibians.	.611	Dinornis. Moa
	Proteus. Newts. Axolotls. Salamanders	.612	Gallinaei. Gamebirds
598	Sauropsida	.613	Turnicidae. Hemipodes (button-quail)
.1	Reptilia. Reptiles. Herpetology	.617	Pteroclididae. Sandgrouse. Prairie chicken
.111	Rhynchocephalia. Sphenodon. Tuatara		Tinamidae. Tinamous
.112	Lacertilia. Lizards. Geckonidae (geckos).	.619	Phasianidae. Pheasants. Partridge. Quail.
	Iguanidae (iguanas). Anguidae (slow-worms, blindworms). Varanidae (varans, monitors).	.65	Peafowl (peacock). Turkey Guinea-fowl.
	Lacertidae (Common lizard. Sand lizard Green lizard. Wall lizard) etc.	.652	Domestic fowl (chickens)
.114	Rhaptoglossa. Chameleons	.653	Tetraonidae. Grouse. Hazelhen. Capercaillie.
12	Ophidia. Snakes. Ophiology	.654	Ptarmigan
.121	Non-poisonous snakes in general		Columbae. Pigeons and doves
.122	Operodonta	.655	Didunculidae. Tooth-billed pigeons
.123	Boaeformia. Giant snakes. Constrictors. Boa. Python	.7	Geotrygonidae
.124	Colubers (harmless snakes). Grass snake (ringed snake). Smooth snake	.71	Columbidae. Woodpigeon (ring-dove)
126	Poisonous snakes (venomous snakes). Cobra. Rattlesnake. Viper (adder) etc.	.721	Rock-dove. Town pigeon. Stock-dove.
.13	Testudinata. Chelonia	.726	Collared dove. Turtle-dove
.132	Cryptodira. Land tortoises	.742	Carpophagidae. Fruit-pigeons
.133	Cheloniidea. Marine turtles. Leatherback (leather turtle)	.8	Fibulatores. Scansores. Climbers Trogons etc.
.134	Pleurodira. Amphibious tortoises	81/ 84	Psittaci. Parrots. Lories. Cockatoos. Macaws.
.135	Trionychia. Terrapins. Freshwater tortoises or turtles	812	Budgerigars
.14	Crocodylia. Crocodiles. Alligators. Caymans Gavials	.813	Rhamphastidae. Pepper-bird. Toucan
.15	Ichthyosauria	.815	Picidae. Woodpeckers. Wryneck
16	Sauropterygia. Plesiosaurs. Placodonts	.816	Cuculidae. Cuckoo. Roadrunner. Ani
.17	Theromorpha. Pareiasaurs. Pelycosaurs. Dimetrodon etc.	.817	Passeres
.18	Pterosauria. Pterodactyl. Pteranodon	.822	Oscines. Songbirds
.19	Dinosauria. Diplodocus. Iguanodon. Stegosaurus	.825	Hirundinidae. Swallows. Martins.
.2	Aves. Birds in general. Ornithology		Sand-martin. House-martin etc.
	598.2:061.63 Bird observation posts		Muscicapidae. Flycatchers. Waxwing (silktail)
	:502.742 Bird sanctuaries	.826	Laniidae Shrikes
.3	Grallatores. Waders	.1	Corvidae. Crows. Jay. Nutcracker. Pie (magpie). Chough. Raven. Rook Carrion crow. Daw (jackdaw)
.31	Calamicolae. Rails. Crakes. Coots. Moorfowl (moorhens)	.2	Paradisidae. Birds of paradise
32	Arvicolae. Bustards. Cranes	.4	Oriolidae. Orioles
33	Limicolae		Sturnidae. Starlings. Grackles. Mynahs (minas). Oxpickers (tickbirds)
331	Charadriidae. Plovers. Turnstone. Lapwing (peewit). Oystercatcher	.5	Ploceidae. Sparrows. Tree-sparrow.
.332	Dromadidae. Crab-plover	.829	House-sparrow (English sparrow).
.333	Scolopacidae. Sandpipers. Dunlin. Stint.	.831	Rock-sparrow etc. (Cf.598.842).
	Phalaropes. Shanks (redshank, greenshank). Curlew. Whimbrel. Godwit. Woodcock. Snipes	.839	Weaver-birds
.334	Thinocoridae. Strand-plover	.841	Fringillidae. Finches
.34	Gressores. Ibises. Spoonbill. Storks. Herons. Egrets. Bitterns	.842	Fringillinae. Chaffinch. Brambling
.4	Natatores. Swimmers. Sea-birds		Coccothraustinae. Hawfinch. Grosbeak.
.41	Lamellirotres		Cardinal bird
.411	Mergidae. Sawbills. Goosander. Smew		Emberizinae. Buntings. Corn-bunting.
.412	Anatidae. Ducks. Mallard. Gadwall. Widgeon. Teal etc. Marine ducks. Shelduck. Eider etc.		Reed-bunting. Yellowhammer. Ortolan
.413	Anseridae. Geese. Brants (brent goose, barnacle goose etc.). Greylag. Pink-footed goose		Pyrrhulinae. Bullfinch. Crossbill. Greenfinch.
.414	Cygnidae. Swans. Mute swan. Whooper swan. Bewick's swan	.86	Serins. Canary. Siskin. Goldfinch. Linnet
.416	Phoenicopteridae. Flamingos	.88	Motacillidae. Pipits. Wagtails
			Alaudidae. Larks. Woodlark. Skylark
			Certhiidae. Treecreeper. Wallcreeper.
			Nuthatch
			Paridae. Tits (titmice). Blue tit. Great tit. Coal tit. Long-tailed tit etc. (Cf.598.842)
			Sylviidae. Warblers. Reed warbler. Marsh warbler. Garden warbler etc. Whitethroat.
			Blackcap. Willow warbler. Chiffchaff.
			Goldcrest. Firecrest. Babblers (incl. bearded tit; cf.598.841). Dunnock (hedgesparrow; cf.598.825). Wren. Mockingbird. Thrushes.
			Blackbird. Song-thrush. Mistle-thrush. Ring ouzel. Fieldfare. Wheatears (chats).
			Stonechat. Redbreast (robin). Nightingale
			Ciamatores
			Strisores. Nightjar (goat-sucker). Swift.
			Hummingbirds (colibris)

598.89	Insectores. Perchers. Hornbills. Kingfisher (halcyon). Hoopoe. Bee-eaters. Rollers	599.722	Rhinocerotidae. Rhinoceroses
.9	Raptatores. Birds of prey	.723	Equidae. Horses. Asses. Onager. Zebra. Quagga
.91	Accipitres. Diurnal birds of prey	.73	Artiodactyla. Even-toed ungulates
.911	Cathartidae. New World vultures. Condors	.731	Nonruminantia
.912	Vulturidae. Old World vultures. Black vulture. Hooded vulture. Lammergeier (bearded vulture). Griffon vulture etc.	.1	Suidae. Swine (pigs, hogs). Wild boar. Barbirusa (pig-deer). Warthog. Peccary
.914	Falconidae. Falcons. Gyrfalcon. Peregrine. Hobby. Merlin. Kestrel	.4	Hippopotamidae. Hippopotamuses
.915	Accipitridae. Eagles. Golden eagle etc. Osprey. Hawks. Sparrowhawk. Shikra. Goshawk etc. Harriers. Marsh harrier. Hen-harrier etc. Buzzards. Kites	.735	Ruminantia
.97	Striges. Nocturnal birds of prey. Owls. Barn-owl (screech-owl). Eagle-owl. Snowy owl etc.	.1	Camelidae. Camels. Dromedary. Guanaco. Llama. Alpaca. Vicuna
599	Mammalia. Mammals	.5	Tragulidae. Chevrotains (mouse deer)
.1	Eplacentalia in general. Egg-laying mammals		Cervicornia. Antlered mammals. Deer. Roe-deer. Fallow-deer. Red deer etc.
.11	Monotremata. Echidna (spiny anteater). Duck-billed platypus		Musk-deer. Elk (moose). Wapiti. Reindeer (caribou)
.2	Marsupialia. Pouched mammals		Pellicornia. Giraffe. Okapi
.22	Diprotodontia. Koala. Wombat. Kangaroos. Wallabies	.74	Cavicornia. Horned mammals (hollow-horned). Antelopes. Gazelles. Kudu. Gnu. Chamols. Ibex. Goats. Sheep. Mouflon. Oxen. Domestic ox (cattle). Buffalo. Yak. Bison. Aurochs
.23	Polyprotodontia. Bandicoot. Phalanger (possum, opossum). Thylacine (marsupial wolf). Dasyures (marsupial cats)	.742	Carnivora. Carnivorous mammals
.3	Placentalia. Placental mammals	.1	Fissipedia. Terrestrial carnivores
.31	Edentata	.2	Canidae. Dogs. Wolf. Jackal. Fox. Coyote. Dingo. Domestic dog
.311	Nomarthra. Pangolin (scaly anteater). Aardvark (ant-bear)	.3	Ursidae. Bears. Polar bear. Brown bear. Grizzly bear etc.
.312	Xenarthra. Sloths. Anteaters. Armadillo	.4	Procyonidae. Raccoons. Pandas. Kinkajou
.32	Rodentia. Rodents	.5	Mustelidae. Stoat. Weasel. Mink. Polecat. Ferret. Martens. Sable. Wolverine (glutton). Badger. Otter. Skunk
.322	Sciuromorpha. Squirrels. Marmots. Ground-squirrels. Souselik. Gopher. Beaver	.6	Viverridae. Civet (civet-cat). Genet. Mongoose (ichneumon)
.323	Myomorpha	.7	Hyaenidae. Hyenas. Aardwolf
2	Myoxidae. Dormice		Felidae. Cats. Lion. Tiger. Puma (cougar, mountain-lion). Jaguar. Leopard. Panther.
3	Dipodidae. Jerboas		Lynx. Wild cat. Domestic cat
.4	Muridae. Mice. Rats. Hamsters. Voles. Lemmings. Field-mice. House-mice. Gerbil. Water-rat	.745	Pinnipedia. Aquatic, marine carnivores
324	Hystriocomorpha. Porcupines. Coypu (nutria). Guinea-pig. (cavy) Chinchilla. Capybara (water-hog)	.1	Otariidae. Sea-lions. Fur-seal (sea-bear) (cf. 599.745.3)
.325	Duplicidentata. Hares. Rabbits. Pikas	.2	Trichechidae. Walrus
33	Insectivora. Insectivorous mammals in general	.3	Phocidae. Seals. Common seal. Grey seal. Greenland seal etc. Sea-elephant (elephant-seal)
35	Zalambdodonta	75	Domestic animals in general —636; 591.612; also various subdivisions of 592/599, e.g. 598.617, 599.735 5
.36	Dilambdodonta	.8	Quadrumanes. Primates
362	Talpidae. Moles	81	Prosimiae
363	Soricidae. Shrews. Alpine shrew. Pygmy shrew. Water shrew. Common shrew etc.	.811	Tarsioidea. Tarsiers. Spectral tarsier
.365	Erinaceidae. Hedgehogs (urchins)	812	Lemuroidea. Lemurs. Lorises. Galago (bush-baby). Aye-aye. Potto. Indri
38	Menotyphla. Tree-shrews. Tupai (banxring)	82	Simiae. Apes and monkeys
39	Dermoptera. Colugo. Cobego (kaguan)	.821	Hapalidae (Callithricidae). Marmosets. Tamarins
4	Chiroptera. Bats		Cebidae. Sapajou. Capuchin monkey. Howler monkey. Spider monkey
41	Megachiroptera. Flying fox	.822	Cercopithecidae. Mandrill. Baboon. Macaques. Barbary ape. Rhesus monkey. Proboscis monkey. Guenons. Green monkeys
42	Microchiroptera. Flittermice. Horseshoe bats. Pipistrelles. Common pipistrelle etc.	824	Hylobatidae. Siamang. Gibbon
5	Cetacea. Whales		Anthropomorphae. Anthropoid apes. Orang-utan. Chimpanzee. Gorilla
51	Mystacoceti. Baleen whales		Homo. Humans. Hominids
511	Balaenopteridae. Rorquals (finner whales, finbacks). Humpback whale. Blue whale	826	<i>Position of humanity in nature.</i>
512	Balaenidae. Right whales. Greenland whale	.88	<i>Comparisons between humans and animals in general</i>
53	Odontoceti. Toothed whales. Sperm whale (cachalot). Killer whale (grampus). White whale (beluga). Narwhal. Dolphins. Porpoises		<i>For general anthropology —572, for human anatomy —611; physiology —612; pathology —616</i>
55	Sirenia. Sea-cows. Manatees. Dugongs	.9	
6	Ungulata. Hoofed mammals in general		
61	Proboscidea. Elephants. Mammoths		
62	Hyracoidea. Hyrax (rock-rabbit). Daman (dassy, rock-badger)		
72	Perissodactyla. Odd-toed ungulates		
721	Tapiridae. Tapirs		

6 APPLIED SCIENCES. MEDICINE. TECHNOLOGY

608	INVENTIONS AND DISCOVERIES IN SCIENCE AND TECHNOLOGY —001; 347.77 Inventions and inventing generally. Scientific and technical discoveries <i>Individual inventions and discoveries are classed with their subject, adding :608.1 if required</i>	608.3 Patents and patenting (proposals, descriptions, specifications) 608.3(082) Collections of patents <i>Individual patent documents are classed with their subject, e.g.</i> 621 396.677(088 8) Patents for directive aerals Invention models, samples, designs, drawings <i>Individual models are classed with their subject, adding (086.48) if required</i>
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61 MEDICAL SCIENCES

	61-05 Persons and personal characteristics in medicine <i>Details from Table I(k)-05</i>	611-018 8 Nerve tissue. Neurons (nerve cells) Nerve fibres —611.8; 612.822 Comparative anatomy 611-019 ≈ 59 Experiments. Observations 611.08 ≈ 57.08
611	ANATOMY —343.93; 572; 591.4; 599.9; 616-091; 743	
Special auxiliary subdivisions		
611-01	General anatomy	Pincipal divisions
-012	Teratology. Malformations. Teratogeny Anomalies. Monsters. Siamese twins etc. —591.2; 616-007	611.1/ 8 .1
-013	Embryology. Development of the foetus —591.3; 612.64; 618.32	
1	Germ cells (gametes). Spermatozoa (semen). Ovum (egg).	
.2	Copulation. Fertilization —576.37; 612.613; 612.63	.16
3	Germinal layers. Morula. Blastula. Gastrula	.2
.37	Entoderm. Inner germinal layer	
.38	Ectoderm. Outer germinal layer	
.39	Mesoderm. Middle germinal layer. Mesenchyma	
4	Organs of the inner germinal layer. Chorda dorsalis	
.5	Organs of the outer germinal layer. Lamina medullaris	
.6	Organs of the middle germinal layer. Protovertebrae	.28
.7	External form of the embryo	3
.8	Appendicular organs of the embryo. Umbilical cord. Vitelline sac and duct. Allantois. Amnion. Amniotic fluid. Placenta (afterbirth)	
.9	Experimental embryology. Mechanisms of development. Causal morphology —612.622; 612.646	
-018	Histology. Histogenesis. Tissue —57.086; 581.8; 591.8; 612.014; 616-091.8	
.1	Cytology. The cell. Cytoplasm. Protoplasm. Vacuolae. Nucleus. Centrosome. Flagellae —576.31	
2	Connective tissue. Reticular tissue. Mucous tissue. Adipose tissue. Elastic and fibrous connective tissue. Pigment tissue	
.3	Cartilage. Fibrocartilage. Articular cavity. Capsular ligament. Synovial sheath. Sesamoid bone —611.72	.4
.4	Osseous tissue. Bone. Osteogenesis. Bone cells. Periosteum. Medulla (marrow) —611.71	.41
5	Blood. Corpuscles. Erythrocytes (red corpuscles). Leucocytes, phagocytes (white corpuscles). Thrombocytes (blood platelets). Plasma. Serum	.42
.6	Muscle fibre. Smooth musculature (involuntary muscle). Striated musculature (voluntary, skeletal muscle) —611.73	.43 .44 .45
.7	Epithelial tissue. Epithelial glands. Mucous membrane	.47 .6 .61
		SYSTEMATIC ANATOMY. ORGANS Angiology. Cardiovascular system. Blood vessels 611.11/.14 ≈ 616.11/.14, e.g. 611.11 Pericardium. Epicardium .12 Heart. Endocardium. Myocardium .13 Arteries. Aorta .14 Veins Capillary vessels Respiratory system 611 21/.26 ≈ 616.21/.26, e.g. 611.21 Nose. Sinuses —611.86 .22 Larynx (voice-box) .23 Trachea (windpipe) Bronchi .24 Lungs .25 Pleurae .26 Diaphragm Branchiae Digestive system. Alimentary canal 611.3 ≈ 616.3, e.g. 611.31 Oral cavity. Mouth —612.87 .313 Tongue .314 Teeth. Dentition .315 Palate. Velum .316 Salivary glands .317 Lips .32 Pharynx (throat). Oesophagus (gullet). Tonsils .33 Stomach. Pylorus .34 Intestines (guts). Bowels. Duodenum. Jejunum. Ileum. Caecum Colon .35 Rectum. Anus. Perineum .36 Liver. Hepatic duct. Gallbladder. Bile duct .37 Pancreas .38 Peritoneum. Omentum. Mesentery Lymphatic system. Haemopoietic organs. Endocrine organs Spleen Lymphatic system. Lymphatic vessels. Lymph glands Endocrine organs (ductless glands). Thymus Thyroid gland. Parathyroid glands Adrenal glands (suprarenal glands). Other ductless glands Carotid body. Paraganglia Urogenital system (genito-urinary system). Urinary and sexual organs Kidneys. Ureter

611.62	Urinary bladder. Urethra	611 (cont'd)	611.815 Mesencephalon (midbrain). Quadrigeminal bodies. Cerebral peduncles etc.
.63	Male genital organs		.817 Metencephalon (hindbrain). Rhombencephalon. Cerebellum. Pons Variolii etc.
.631	Testes (testicles)		.818 Myelencephalon. Medulla oblongata (cerebrospinal bulb)
.634	Vas deferens		.819 Cerebral meninges
.637	Prostate	.82	Spinal cord. Spinal medulla. Grey matter. White matter. Spinal meninges
.638	Scrotum	.83	Peripheral nervous system. Sensory nerves 611.831/.835 $\approx$ 616.833.1/.5 —611-018.8
.639	Spermatic cord	.839	Sympathetic and parasympathetic nervous systems. Autonomic system 611.839 $\approx$ 616.839 —611.89
.64	Penis. Corpora cavernosa. Glans penis	.84/.88	Sensory organs —159.93
.65	Female genital organs —618	.84	Eyes. Organs of sight, vision —617.7
.651	Ovaries. Ovarian follicles (Graafian follicles)	.841	Outer coat (tunic) of the eye. Ocular part of conjunctiva. Cornea. Sclera
.652	Corpora lutea	.842	Vascular coat of the eye (uvea). Iris. Pupil
.656	Oviducts (Fallopian tubes)	.843	Retina. Optic bundle —611.83
.66	Uterus (womb)	.844	Eyeball. Lens. Vitreous body
.663	Cervix uteri	.846	Accessory organs of the eye. Eye muscles. Lacrimal apparatus (tear glands)
.664	Endometrium (uterine mucous membrane). Myometrium (uterine muscular coat)	.847	Eyelids. Cilia (eyelashes). Palpebral part of conjunctiva
.67	Vagina and external female genitals	.848	Supercilia (eyebrows)
.671	Vagina	.85	Ears. Organs of equilibrium and hearing
.672	Hymen	.851	Inner ear in general
.673	External female genitals. Vulva. Mons pubis (mons veneris). Labiae	.852	Membranous labyrinth. Cochlea. Semicircular ducts
674	Female urethra —611.62	.854	Tympanum (ear-drum). Tympanic cavity
675	Clitoris	.855	Tympanic membrane
69	Mammary glands. Breasts	.856	Pharyngotympanic tube (Eustachian tube)
.7	Skeletal, locomotor and integumentary systems	.857	Auditory ossicles (bones of the ear) Malleus (hammer). Incus (anvil). Stapes (stirrup)
.71	Osteology. Bones. Skeleton —611-018.4	.858	External ear. Auricle (pinna). Ear lobe etc. .86
.711	Vertebral column. Spine (backbone)	.87	Olfactory organ (organ of smell). Nose. Nostrils. Nasal mucosa etc. —611.21; 612.86
.712	Thorax. Chest. Rib-cage	.88	Gustatory organs (organs of taste). Taste buds —611.31; 612.87
.713	Sternum (breastbone)	.89	Tactile organs (organs of touch, feeling) —611.77; 612.88; 616.831.2
.714	Skull. Bones of the head. Cranium		Nerve ganglia —611.839; 616.834
.715	Cerebral bones of the skull Occipital. Sphenoid. Temporals. Parietals. Frontal. Ethmoid	611.9	ANATOMICAL TOPOGRAPHY. SOMATOLOGY. PARTS, REGIONS OF THE BODY. REGIONAL ANATOMY —572.5
716	Facial bones of the skull. Cheekbones (zygomatic bones). Jawbones (maxilla, mandible). Lacrimal bones. Nasal bones. Vomer	91	Head. Cranial region
717	Bones of the upper extremities Clavicle (collarbone). Bones of shoulders, arms, hands, fingers	92	Face. Facial region
718	Bones of the lower extremities Pelvic girdle Bones of thighs, legs, feet, toes	93	Neck. Cervical region
.72	Syndesmology. Articulations (joints). Sutures 611.72 $\approx$ 616.72 —611-018.3	94	Chest. Thoracic region
73	Myology. Muscular system Skeletal musculature 611.73 $\approx$ 616.74 —611-018.6	941	Breast Pectoral region
74	Tenology. Ligaments. Tendons Sinews. Fasciae Aponeuroses 611.74 $\approx$ 616.74 —611-018.2	946	Back. Dorsal region
75	Synovial bursae. Synovial sheaths 611.75 $\approx$ 616.76	.95	Belly Abdominal region (ventral region)
77	Dermatology. Common integument Skin Cutaneous glands —611.88, 616.5	.957	Groin Inguinal region (lower abdominal region)
771	Epidermis	.959	Loins Lumbar region
773	Sebaceous glands	.96	Hips. Pelvic region
774	Sudoriferous glands (sweat glands)	.97	Upper extremities. Shoulders and arms (axillary, brachial, carpal regions etc.)
779	Corium (dermis, cutis)	.976	Hands
781	Trichology Hair Pilar system Lanugo Bristles Beard etc	.98	Lower extremities. Legs (femoral, crural, malleolar regions etc.)
786	Nails	.986	Feet
8	Nervous system. Sensory organs —611-018.8	612	PHYSIOLOGY —159.91; 577; 581.1; 591.1; 616-092
81	Central nervous system Brain (cerebrum, encephalon) 611.81 $\approx$ 616.831, e.g. 611.813 Prosencephalon (forebrain) Telencephalon. Cerebral cortex etc (from 616.831.3)	Special auxiliary subdivisions	
	814 Diencephalon (thalamencephalon) Hypothalamus Pituitary gland etc		

612-019	Comparative physiology	599	612.116	Total blood volume	615.38
-06	Actions. Effects. Influences		117	Physical properties of blood	Specific gravity, viscosity, colour etc. of blood
-063	Stimulation. Positive influence		118	Biological properties of blood	Blood groups
-064	Antagonistic, negative, retarding influence		119	Blood formation (haematopoiesis)	612.356; 612.41
-08	Biological techniques. Experimental methods	612-08 $\approx$ 57.08, e.g.	.12	Chemical properties of blood	
-086	Cytological and histological techniques		.121	Reaction of blood	Acidity, alkalinity of blood
-087	Recording of biological data	Biometry	122	Blood carbohydrates and their derivatives	
-089	Biomedical methods. Surgical techniques			Blood glucose, glycogen	
612 01	Dissection		123	Fats, lipoids, soaps, glycerine in blood	
012	General physiology. Physiological theories, principles		124	Blood albuminoids	Colloidal nitrogen compounds in blood
012	Vivisection	179.4; 57.089; 612-089; 614 22	.126	Mineral substances in blood, e.g. potassium	
013	Life. Death. Vitalism	128; 573.3; 612 67	127	Blood gases	
014	General physiology of the cell and the organism	576 3; 611-018; 612.822	.13	Circulation of the blood. Hydrodynamics of circulation	
1	Physiological chemistry of the cell	Aerobic and anaerobic cells	133	Arterial circulation	
2	Histo-morphological properties of cells		134	Venous circulation	
3	Functions of cell components		.135	Capillary circulation	
3	General physiology of the cell	Irritability	.14	Blood pressure	Sphygmomanometry
.4	Fatigue		.146	Effect of various substances on blood pressure and circulation	
.4	Influence of environment on the cell.		.15	Circulation rate in arteries, veins, capillaries	
.41	Tropisms	615.83	.16	Measurement	
.42	Effects of atmospheric pressure		.17	Pulse	Pulse rate Sphygmographs
.43	Effects of electricity. Electrophysiology		.171	Heart. Cardiology	
.44	Effects of heat and cold. Temperature influences		.172	Mechanics of cardiac contraction	Heartbeat
.45	Effect of light. Phototropism		.173	Heart sounds	Cardiography
.46	Effects of vibrations, sound, noise. Acoustic influences		.174	Heart as muscle	Irritability, contractility, physiological morphology of heart
.461	Effects of chemicals, of poisons. Toxic influences		.176	Cardiac rhythm	
.462	Effect of water. Hydration		178	Work of the heart. chemical, dynamic, thermal processes	
.47	Physicochemical effects	Osmosis Diffusion Adsorption etc.	.18	Toxic effects on the heart	
.47	Effects of mechanical forces	Geotropism. Thigmotaxis	.183	Behaviour of the heart under stress	612.232
48	Other effects	Effect of ionising radiations	184	Innervation of the heart. Syncopes, cardiac reflexes	
5	Effect of X-rays (Roentgen rays)		.19	Vasomotor nerves. Changes in volume of organs	
.015	Constitutional effects		.2	Vasoconstrictors	
.1	Physiological chemistry	577.1; 612.39	.21	Vasodilators	
.1	Enzymes. Ferments	577.325; 663.1	.213	Action of various organs on blood circulation	
2	Normal composition of the body	Organ extracts	.215	Respiration. Breathing. Respiratory system	612.793
.3	Metabolism. Autolysis	612.392	.216	Respiratory movements. Mechanics of respiration. Pneumography	
4	Pigments		.217	Influence of respiration on blood circulation	612.146; 612.19
6	Effect and action of vitamins. Vitamin content of tissues and body fluids	612.015.6 $\approx$ 577.16	.219	Special physiology of the respiratory apparatus	
017	Immunity. Adaptation. Toxins	Antitoxins	22	Respiratory rate, frequency, rhythm, sounds.	
018	Hormones. Internal secretions	612.43; 612.616.3; 612.621.3	.23	Artificial changes of respiration	
Principal divisions			.231	Physiology of the respiratory muscles, diaphragm. Mechanical processes of respiration	
612.17.8	SYSTEMATIC PHYSIOLOGY		.232	Sneezing. Laughing. Yawning	
1	Blood. Cardiovascular, circulatory system	616.1, esp. 616.15	.233	Chemistry of respiration. Gaseous exchange. Respiratory metabolism. Effect of oxygen on the organism	
11	Properties of blood in general. Composition of blood		.234	Gaseous exchange in the blood	
111	Red blood corpuscles (erythrocytes).		.24	Expired air	
.112	Haemoglobin. Chemicals in corpuscles.		.25	Asphyxia in physiology and forensic medicine.	
.113	Lecithin, urea, cholesterol. Red cell count, number, shapes		.26	Artificial respiration	612.176; 614.816
.114	White blood corpuscles (leucocytes).		.27	Respiration in confined air	
.115	Phagocytes. Amoeboid cells. White cell count, number, shapes. Lymphocytes.		.274	Toxic effect of carbon monoxide	
.1	Monocytes		.275	Total lung capacity. Residual air	
	Arterial blood		.28	Exhalation of water from the lungs	
	Venous blood			Tissue respiration. Gaseous exchange between blood and tissues	
	Blood coagulation, clotting			Effects of atmospheric pressure on living organisms	613.643; 616-001.11/.12
	Fibrin. Thrombin			Effect of high pressures	
				Effect of low pressures	
				Influence of the nervous system on respiration. Respiratory reflexes	

612.291	Effects of blood pressure, circulation etc. via the carotid sinus	612.358	Innervation of the liver. Action of nervous system on the liver
.3	Alimentation. Eating. Digestion. Nutrition	.359	Ablation, regeneration, cicatrization and other morphological and histological phenomena in the liver
.31	Oesophagus. Oral cavity. Teeth. Salivary glands	.36	Large intestine. Colon. Defecation. Faeces (excreta)
.311	Mastication (chewing). Ingestion	.363	Appendix vermiformis
.312	Deglutition (swallowing)	.366	Rectum
	—612.785	.38	Absorption through skin, lungs, mucous surfaces etc. Imbibition. Osmosis. Dialysis. Diffusion
.313	Salivation. Salivary glands. Saliva. Ptyalin		—612.791
.315	Oesophagus	.39	Nutrition
.32	Stomach. Gastric juices		—612.015; 613.2; 614.3; 615.24
.321	Normal composition of gastric juice. Pepsin. Proteolytic enzymes	.391	Inanition. Hunger. Thirst
.322	Gastric action on food. Digestion in the stomach	.392	Foodstuffs in general
.323	Gastric secretion		—612.015.3
.4	Self-digestion of the stomach		<i>Details by special auxiliaries at 612, e.g.</i>
.5	Effects of gastrectomy		612.392.015.6 Physiological effect and action of vitamins
.325	Physiological morphology, histology, of the stomach	.1	Assimilation of carbon
.326	Pathological physiology of the stomach	.2	Assimilation of nitrogen
	—616.33	.3	Assimilation of water
.327	Motility of the stomach. Irritability of stomach as muscle. Evacuation of stomach. Eructation (belching). Emesis (vomiting)	.4	Assimilation and conversion of sulphur, phosphorus, iron
.328	Innervation of the stomach. Action of nervous system on the stomach. Gastric sensitivity	.5	Calorific value of foods
.33	Intestines (guts). Midgut. Intestinal glands	.6	Mineral salts
.331	Normal intestinal juices. Intestinal gases	.7	Vegetable foods
.332	Action of intestinal juice on food. Intestinal digestion	.8	Animal foods
.7	Absorption and conversion of food in the intestines	.9	Other foods. Artificial, synthetic foods
.333	Intestinal secretion	.393	Action of stimulants, irritants, intoxicants, condiments (alcohol, coffee, tea, spices etc.)
.334	Action of chemicals and poisons on intestinal secretions and their removal. Laxatives	.394	Nutritional requirements and growth
	—615.246	.395	Normal and minimum adult diet (nutritional requirement). Relation of diet to climate
.335	Physiological morphology, histology, of the intestines. Brunner's glands. Intestinal villi	.1	Normal working requirement
.336	Pathological disturbances of the intestine. Parasites. Microorganisms	.2	Minimum requirement (subsistence diet)
	—576.88/.89; 616.34	.6	Requirement in sickness, disease
.337	Peristalsis. Intestinal movements	.396	Carbohydrates. Starches. Sugars. Glycolysis
.338	Innervation of the intestines. Action of nervous system on the intestines	.397	Fats. Lipids. Lipoids. Cholesterol. Lipolysis
.339	Peritoneum. Omentum. Abdominal cavity. Intra-abdominal pressure	.398	Proteins, nitrogenous foodstuffs. Albumin. Albuminoids. Proteolysis
.34	Pancreas		—641.12
.341	Normal composition of pancreatic juice	4	Glandular system. Secretion. Excretion
.342	Action of pancreatic juice on food	Special auxiliary subdivisions	
.343	Pancreatic secretion	612 4.01	Effect of circulation on glandular activity.
.344	Action of chemicals on pancreatic secretion	.02	Holocrine organs. Chromaffin organs
.345	Physiological morphology of the pancreas	.03	Effect of glands on the blood and circulation
.346	Pathological physiology of the pancreas	.04	Effect of glands on nutrition
.348	Innervation of the pancreas	.07	Effect of nutrition on the glands
.349	Pancreas as endocrine gland	.08	Effect of glands on the nervous system
.7	Islets of Langerhans		Effect of nervous system on glandular activity
.8	Action of insulin	Principal divisions	
.35	Liver	612 41	Haematopoietic system. Spleen Marrow
.351	Chemical composition of liver Hepatic circulation	411	—612.119; 612.356
.352	Action of liver on food and reserve materials	419	Spleen. Blood storage and filtering functions of spleen
	Blood sugar Glycogen	.42	Medulla (marrow)
.353	Chemical functions of liver Urea formation	.421	Lymphatic system. Lymph
.354	Action of poisons on liver. Toxic hepatic steatosis Anti-toxic action of the liver	.423	Chemical composition of lymph
.356	Haematopoeitic function of the liver	.428	Lymphatic circulation
	—612 119, 612 41	.429	Lymph glands
.357	Bile (gall) Bile secretion	43	Reticulo-endothelial system
.1	Chemical composition of bile Bile pigments	432	Endocrine physiology Internal secretions
.2	Bilirubin Biliverdin. Urobilin	.433	Ductless glands. Hormones Endocrinology
.3	Action of bile on intestines and contents	.434	—612.018; 612.616.3; 612.621 3
.4	Bile secretion	.9	Function of pituitary gland (hypophysis) in general
.5	Action of chemicals and poisons on bile secretion	.438	Anterior lobe. Antuitrin
.6	Elimination of poisons by bile	.44	Posterior lobe (neurohypophysis). Pituitrin
.7	Pathological physiology of liver etc Biliary calculi (gallstones)	.447	Intermedia. Chromatophorotropic hormone
	Excretion of bile Physiology of bile ducts, gallbladder	.45	Thymus: chemistry, action etc.
		.452	Thyroid gland
		.453	Parathyroid glands
		.46	Adrenal glands (suprarenal glands) Other endocrine glands
			Function of adrenal medulla. Adrenalin
			Function of adrenal cortex. Cortisone
			Kidneys. Renal functions. Urine

612.461	Chemical composition of urine	612.62	Female genital organs
.1	Reaction and physical properties. Urine analysis	621	Ovaries. Graafian follicles
2	Urea. Nitrogen compounds	.1	Experimental and pathological lesions and removal of ovaries
23	Nitrogen excretion. Nitrogen metabolism	.3	Interstitial tissue of ovaries. Ovarian hormones Oestrogens
25	Uric acid	—612.018; 612.43	
26	Other nitrogenous substances in urine	.5	Oestrus Oestrous cycles
	Allantoin, peptones, ammonia, enzymes in urine Hippuric acid	.9	Ovulation
27	Urinary pigments. Urochrome. Urobilin. Porphyrin etc.	.622	Ovum: genesis, composition etc
6	Inorganic substances, salts, gases in urine	—611-013.9	
8	Non-nitrogenous organic substances Sugar in urine	.627	Oviducts (Fallopian tubes). Uterus Vagina Vulva
462	Toxicity of urine	.63	Internal fertilization (impregnation)
.463	Secretion and volume of urine		Conception. Pregnancy. Gestation Parturition (childbirth)
464	Influence of poisons, chemicals, on secretion and excretion of urine	—611-013.2; 612.613, 618	
	—615.254	Special auxiliary subdivisions	
465	Morphology and physiological histology of kidneys	612 63 01	Duration of pregnancy
.466	Pathological physiology of renal function		—618 231
1	Urinary calculi. Stones in bladder etc.	02	Completion of pregnancy. Labour
.2	Secretion of urine in disease	03	Ovaries during pregnancy. Luteal cells. Progesterone. Pregnandiol
.6	Abnormal substances in urine	Principal divisions	
	—616 63	612.631	Nidation of the ovum
.467	Excretion of urine Bladder. Ureters. Urethra	.632	Single or multiple pregnancy
	Urination. Micturition	64	Development of organism Teratological physiology
49	Other glands and secretory processes. Carotid gland etc.		—611-013; 618.231
.5	Animal heat. Thermal processes	.646	Embryo
.51	Origin of animal heat (thermogenesis)	.647	Foetus
	Calorimetry	.648	The newborn (neonate). Viability
.52	Paths of heat loss	.649	Foetal appendages. Amnion. Umbilicum. Urachus
.521	Heat loss by radiation through skin (cutaneous radiation)	.65	Growth, development, after birth
.523	Heat loss by evaporation in lungs (pulmonary evaporation)	.66	Influence of age on various physiological processes
524	Heat loss by evaporation through skin (cutaneous evaporation)		—613.9
53	Regulation of body temperature Thermotaxis	661	Puberty
	—612.792	.662	Menstruation
54	Other influences on thermogenesis. Thermal effects of baths, hunger, thirst, poisons	.9	Cessation of menstruation. Menopause
.55	Variations in heat production and regulation	.663	Fertility Infertility (sterility)
56	Body temperature. Thermal topography	.664	Milk. Lactation. Mammary glands
.57	Fever (pyrexia). Hyperthermia	.1	Chemical composition and physical properties of milk
	—616.9 subdivisions	.3	Secretion of milk. Colostrum
.59	Effects of heat and cold on the organism	.4	Effect of poisons, chemicals, on milk secretion. Their elimination
	Adaptation to temperature	.67	Climacteric. Decline. Ageing. Senescence.
.591	Effects of heat. Death from heat. Thermal rigor (heat cramp)		Old age. Senility. Decrepitude. Death
.592	Effects of cold. Death from cold, hypothermia. Cold cramp, rigor	.68	Longevity. Regeneration
6	Reproduction. Growth. Development	.7	Motor functions. Organs of locomotion. Voice. Integument
	—611.6	.73	Smooth musculature (involuntary muscle)
Special auxiliary subdivisions			—612.73 = 612.74
612 6 02	Grafting of organs. Transplantation	.74	Striated musculature (voluntary, skeletal muscle)
	Implantation	.741	Muscular contraction. Myography Muscle volume in contraction. Irritability of muscle
03	Cicatrization (scar formation) Regeneration	742	Muscles after death. Rigor mortis. Autolysis
.06	Sexuality. Origin of the sexes	.743	Electrical phenomena in muscle
07	Blood relationship. Consanguinity Incest	.744	Chemistry of muscle. Composition of muscle. Myosin etc. Chemical effects of muscular contraction. Muscular fatigue
.08	Hermaphroditism	.745	Dynamic and thermal effects of muscular contraction on the organism
Principal divisions		.1	Dynamic effects. Muscular energetics
612 61	Male genital organs	.3	Thermal effects
.612	Erection in males and females. Penis. Clitoris	.5	Relations between work and heat
.613	Copulation. Fertilization. Artificial insemination	.6	Occupational energetics
	—611-013.2; 612.63	.746	Pathological changes in muscular function. Contractures. Muscle tremors etc.
.616	Testes. Testicles and their sheaths. Sperm. Seminal fluid		—616.74
.1	Castration in males and females	.748	Innervation of muscles
.2	Physiology of spermatozoa	.5	Nutrition of muscle. Atrophy. Degeneration. Regeneration
.3	Testes as endocrine glands. Male sex hormones. Testosterone etc.	.75	Bones. Articulations (joints). Cartilage. Connective tissue. Fasciae. Synovial bursae. Tendon sheaths
	—612.018; 612.43		
.617	Organs appendant to the testes. Seminiferous tubules. Epididymis. Paradiidymis. Vas deferens. Seminal vesicles. Spermatic cord. Prostate gland. Scrotum		

612.751	Chemical composition of bones etc.	612.825.5	Cortex as centre of sensation and perception.
.752	Nutrition of bones etc.		The senses (reception). Hearing. Smell. Taste.
.753	Growth, cicatrization, regeneration of bones etc.		Muscular sense. Touch —612.84/.88
.754	Periosteum. Perichondrium	.8	Intellectual work
.755	Tendons	.826	Basal ganglia. Commissures etc.
.76	Locomotion. Principles of animal mechanics	.827	Cerebellum
.761	Speed	.828	Medulla oblongata (cerebrospinal bulb)
.763	Coordinated movements other than locomotion	.83	Spinal cord
	Human locomotion	.833	Reflex activity 612.833.1/.7 $\approx$ 612.1/.7
.766	Physiology of exercise, of work (ergology).	.8	Action of higher nerve centres on reflexes.
.1	Study of fatigue (ponology)		Conditioned reflexes
.2	Physiology of rest	.84	Physiological optics. Sight (vision) —159.931; 681.784
.78	Voice. Speech. Phonation	.841	External (fibrous) coat of eye. Cornea.
.781	Sensitivity of the larynx		Conjunctiva. Sclerotic (white of eye)
.782	Motor function and innervation of the larynx.	.842	Middle (vascular) coat of eye. Iris. Pupil.
.784	Movements of glottis, epiglottis		Choroid. Ocular pigments. Circulation in the eye. Intra-ocular pressure
.784	Vocal register, range, pitch. Vocal timbre, tone, resonance	.843	Optic bundle. Retina
.785	Function of larynx in swallowing. Other laryngeal functions —612.312	.1	Physiological morphology. Visual substances
.789	Word formation, articulation. Speech.	.111	Blind spot (porus opticus, optic disc)
	Ventriloquy —800	.112	Yellow spot (macula lutea)
.79	Common integument. Skin <i>Details by special auxiliaries at 612, e.g. 612.79.015</i> Physiological chemistry of skin	.116.1	Rods
.791	Absorption capacity of skin —612.38	.2	Cones
.792	Cutaneous glands and secretions. Sweat —612.524; 612.53	.14	Chemistry of light perception. Visual substances. Retinal red pigment (visual purple)
.793	Cutaneous respiration. Effect of cosmetics on skin —612.2	.2	Stimulation, irradiation, of the retina
.794	Sensitivity of skin	.3	Light sense (photoreception). Colour vision
.796	Chromatophores. Skin pigments	.31	Colour vision (chromatopsia) —159.937.51; 535.64
.798	Trophic nerves of skin	.32	Colour discrimination. Colour difference threshold. Colour stimulation, chromatic threshold
.799	Growth and physiology of nails, hair, beard	.35	Colour contrast. Luminance contrast (brightness contrast). After-images
.8	Nervous system. Sensory organs	.36	Luminance perception. Adaptation
.81	Peripheral nervous system	.363	Daytime vision. Bright adaptation. Photopic vision
.813	Electrical phenomena in nerves and muscles	.364	Night vision. Dark adaptation. Scotopic vision
	Electrotonus	.367	Dazzle
.814	Chemical and thermal phenomena in nerves	.4	Entoptic phenomena. Opacities. Streaks.
.815	Physiological morphology, histology, of nerves		Muscae volitantes. Retinal blood vessels.
.816	Excitability of nerves and muscles.	.5	Phosphenes. Diffraction and polarization phenomena. Photisms
	Neuro-muscular physiology		Time effects in visual phenomena.
.817	Action of nerves on muscles and glands	.6	Persistence of vision. Perception of movements. Flicker. Scintillation (flashes)
.818	Trophic nerves. Degeneration, regeneration, cicatrization of nerves	.7	Visual field (of the fixed eye). Visual acuity. Power of resolution. Recognition of detail. Sense of form, shape
.819	Special physiology of nerves		Visual perception. Spatial vision. Binocular vision. Stereoscopia
.82	Nerve centres in general Brain (cerebrum, encephalon)	.844	Dioptrics. Astigmatism. Aberration
.821	Physiological psychology —159.9, 616.89	.845	Defects of colour vision. Colour-blindness (dyschromatopsia)
.1	Reaction time Psychometry	.846	Eye movements
.2	Attention. Association. Memory Imagination	.2	Laws of motion of the eyes
.3	Instinct. Intelligence Sensitivity in psychological sense Feelings Emotions	.7	Visual field (of the moving eye)
.4	Effect of poisons on intelligence, e.g. alcohol, anaesthetics	.8	Squint (strabismus). Double vision (diplopia). Monocular vision —617.758.1; 617.761
.5	Effect of disease on intelligence	.847	Palpebral and lacrimal apparatus. Eyelids (palpebrae) Eyelashes (cilia) Tear ducts.
.6	Psychic reflexes		Periorbita
.7	Sleep Unconsciousness The subconscious	.85	Hearing (audition) —159.932; 534 <i>Details by special auxiliaries at 612, e.g. 612.85.01</i> Physiological theories, principles of hearing
.8	Dreams Hypnotism		Functions of external ear. Sebaceous glands
.822	The senses in general Theories of perception	.851	Middle ear
	Neurons (nerve cells) in general Nerve centres —611-018.8	.854	Tympanum (ear-drum). Tympanic membrane
.823	Weight and morphology of the brain and nerve centres	.855	Pharyngotympanic tube (Eustachian tube)
.824	Circulation in the nerve centres.	.856	Auditory ossicles (bones of the ear)
	Cerebrospinal fluid	.857	Inner ear. Labyrinth. Auditory meatus
.825	Cerebral convolutions. Cerebral cortex	.858	Sound conduction in inner ear
.2	Psychomotor centres Localization Speech centre etc	.1	Simicircular ducts
		.3	

612.858 4	Cochlea. Organ of Corti	Principal divisions	
.5	Auditory nerves	613 21	Meals: number, times, intervals etc.
6	Endolymph. Perilymph	.22	Nutrition of children
.7	Conduction of acoustic stimuli in the brain		—613.287; 613.953; 641 562
	Auditory perception. Auditory acuity	.24	Hyponutrition Fasting. Dieting Slimming
	Deafness		—641.561
.86	Smell (olfaction)	25	Hypernutrition. Overeating. Fattening. Putting on weight
	—159.933; 541.69; 611.21		Vegetable foodstuffs
87	Taste (gustation)	26	—633/635
	—159.934; 541.69, 611.31		Vegetarianism
88	Touch, feeling (tactile sense). Sense of equilibrium	261	—641.564
	—159.935/.936; 611.88	262	Fruits Vegetables, legumes Roots
881	Spatial perception		—641.13
882	Sense of temperature. Sense of heat, cold	.263	Starchy foods Carbohydrates
883	Sense of pressure	.268	Vegetable oils and fats
884	Sense of pain	269	Vegetable conserves. Fruit conserves
.885	Muscular sense		—664 8
886	Sense of equilibrium (balance)	27	Mineral foodstuffs
.887	Anaesthesia. Hyperaesthesia. Synaesthesia		—664.4
	—159.937.7	.28	Foodstuffs of animal origin
.89	Sympathetic nervous system		—636/639
.891	Cervical ganglia. Cervical plexus	281	Meat. Fish. Nitrogenous foods. Albumins
892	Thoracic ganglia. Thoracic plexus	.286	Eggs
.893	Abdominal ganglia. Abdominal plexus	287	Milk Milk regime. Lacto-vegetarian diet. Lacto-ovo-vegetarian diet
613	HYGIENE GENERALLY. PERSONAL HEALTH AND HYGIENE		—613 22, 613 953; 637 1
	—614; 616-083	1	Mother's milk
		2	Wet-nurse's milk
613 1	CLIMATIC FACTORS	.3	Prepared or preserved human milk
	—551.58; 615.834	5	Cow's milk. Dried milk. Condensed milk
11	Adaptation to climate. Acclimatization	.8	Skimmed milk. Buttermilk
.12	Healthy climate. Unhealthy climate Climates of various places, e.g.	9	Duration of breast-feeding
	613.12(23) Mountain climate	288	Weaning
	(285.3) Swamp or marsh climate	29	Fats. Fatty foods. Butter. Cheese Margarine
.13	Seasons. Times of day	291	Other solid foods. Artificial foods
14	Need for air. Amount of air required in confined spaces		Condiments. Seasoning. Spices Herbs.
15	Composition of atmosphere		Vinegar
	—614.71	292	—641.88; 664.5
.155	Confined air, in closed rooms	295	Restoratives. Tonics. Stimulants Enriched food
157	Smells		—615.27
	—614.718		Effect of cooking processes
.16	Physical factors	613 3	—641 5
	—615 83		DRINKS. CURATIVE DRINKS. MEDICINAL WATERS. LIQUID DIET
161	Movement of air		—641.87; 663
.162	Atmospheric humidity, moisture Atmospheric aridity, dryness	.31	Water. Water cures. Dehydration Ice
163	Atmospheric pressure	32	Impurities in water and ice
.164	Sounds. Noises	.34	Effect of water and ice purification
165	Light. Sunlight. Ultraviolet and infra-red radiation	36	Cold drinks
		.37	Hot drinks. Meat extracts, stock
.9	Darkness	38	Natural and artificial mineral waters
.166	Heat	613 4	PERSONAL HYGIENE. CLOTHING
9	Cold		—615.838; 646; 665.58; 687.5
167	Electricity	.41	Baths in general
168	Magnetism Electromagnetism	.42	Bathing in bathtubs
613 2	HYGIENE OF NUTRITION (DIET)	.43	Footbaths. Hipbaths (sitzbaths) etc
	—612.39; 614.31; 615.24; 641; 663/664	44	Showers. Shower-baths
Special auxiliary subdivisions		45	Sea-bathing. Saline baths
	<i>NB. The subdivisions of Table I(k)-03 are not applicable under 613 2; but the -0 special auxiliaries listed under 616 may be used here, e.g.</i>	.46	Hot-air baths. Steam baths. Russian, Turkish baths etc.
613.2-032	Nutrition via particular routes	.47	Swimming baths
	613.2-032:611.33 Per gastrum, into the stomach. By gastrostomy. With stomach tube	48	Clothing
	:611.35 Per rectum. Retention enemas	.481	—646; 648; 687
-058	Nutritional state of particular social classes	.482	Type. Composition. Permeability.
	613.2-058 ≈ Table I(k)-058 (and — 616-058)	.483	Absorbency. Thermal conductivity. Effect on skin
-099	Food poisoning	.484	Quantity of clothing. Wearer's resistance to cold
	—615.099; 615.9; 616.981.49; 616.981.55	.485	Cleanliness of clothing
		.486	Pressure, tightness of clothes. Corsets. Belts.
		.49	Garters
			Dyeing. Pigments in clothing
			Proofing, waterproofing of clothing
			Toiletries. Cosmetics. Make-up. Lotions.
			Colorants
			—665.58; 687.5

613.5	HYGIENE OF DWELLINGS —351.778.5; 628.6; 648.5	613.954	Health and hygiene in later infancy (2 to 6 years)
	613.5(1-21) Hygiene of urban dwellings	.955	Health and hygiene of school-age children
	(1-22) Hygiene of rural dwellings	.956	Health and hygiene at age of puberty
		.96	Health and hygiene of adolescents
613.6	OCCUPATIONAL HAZARDS. INDUSTRIAL HEALTH AND HYGIENE —614.8; 628.5	.97	Health and hygiene of adults
.62	Occupational diseases in general	.98	Health and hygiene of old age. Gerontology —612.67; 616-053.9
	—616-057	.99	Health and hygiene of women —618
.63	Working with, and absorption of, noxious substances, e.g. dust, chemicals, bacteria	614	PUBLIC HEALTH AND HYGIENE. ACCIDENT PREVENTION —351.77; 613; 616-084
.633	Effect of dust —628.511 and references there	614.1	POPULATION. DEPOPULATION —312
.64	Working with injurious physical effects	614.2	PUBLIC AND PROFESSIONAL ORGANIZATION OF HEALTH
.643	Pressure: mechanical, atmospheric —612.27	.22	Regulations concerning dissection, vivisection —57.089.6; 612-089; 612.012
.644	Noise. Vibration	.23	Doctors: conditions, examinations, certificates
.645	Light	.25	Concerns, rights, duties of doctors
.646	Temperature. Humidity. Climate	.251	Rights. Freedom to practice. Privileges
.647	Electricity —614.825	.252	Admission to the medical profession.
.648	Ionizing radiations	.253	Qualifications. Licence to practice
.65	Working with excessive strain on particular organs. Injurious posture. Lack or excess of exercise		Relations of doctors with colleagues, with patients. Medical ethics —174
.67	Military health and hygiene	.3	Assistants
.68	Naval health and hygiene	.4	Students
.693	Health and hygiene in air travel. Aviation medicine	.5	Attendants. Orderlies. Nurses. Midwives
613.7	HEALTH AND HYGIENE OF LEISURE, RECREATION, SLEEP —379.8	.8	Patients
.71	Gymnastics. Physical culture —371.7; 615.82; 796.4	.83	Rights and obligations of patients. Doctor's responsibility for treatment. Neglect of patient. Withholding of treatment. Rejection of treatment
.72	Physical exercises and games	.84	Professional secrecy. Medical confidentiality
.73	Overexertion. Training	.89	Environment, family, particulars of patients
.74	Amusements. Recreations	.254	Professional life and activity of doctors.
.76	Holidays. Leave		Surgery. Consultations. Visits. Holidays.
.77	Festival days (religious holidays)	.255	Locums (locum tenentes)
.79	Rest. Sleep. Sleeplessness, insomnia	.256	Relations of doctors to the community, to organizations. Doctors in private and public undertakings
613.8	HEALTH AND HYGIENE OF THE NERVOUS SYSTEM. HEALTH AND ETHICS —178; 351.76	.257	Medical responsibility. Professional risks
.81	Alcoholic drinks. Abstinence. Temperance	.258	Doctors' fees
.83	Anti-alcohol movement. Teetotalism	.26	Medical organizations, professional societies (UK: British Medical Association)
.84	Narcotics —614.35; 615.214	.27	Illegal practice of medicine. Quacks.
.86	Tobacco. Smoking. Anti-smoking movement	.28	Charlatans
	Mental and moral health and hygiene.	.29	Sale of medicines, drugs —615.1
	Emotional health. Intellectual strain. Mental fatigue		Sale of poisons, narcotics
.87	Social customs and usages from the point of view of hygiene, e.g. hand-shaking, kissing —395	614.3	Official medical councils, commissions
.88	Sexual hygiene. Sexual education. Sex life —176; 351.76		SANITARY INSPECTION AND CONTROL. INSPECTION OF FOODSTUFFS AND OTHER GOODS —343.347, 351.773
.881	Sexual excess. Debauchery, dissoluteness, promiscuity	31	Inspection of food. Inspection of shops, markets etc. —612.39; 613.2
.882	Prostitution	.35	Inspection of medicines —613.83
.884	Sexual moderation. Sexual abstinence	.37	Inspection of colouring matter, wallpapers, textiles, clothes, toys, kitchen utensils, furniture etc.
.885	Continence. Chastity		Health control of public gatherings, meetings, places of assembly
.888	Sexual ambivalence. Intersexuality		National health services —362.1
.888	Homosexuality	614.4	PREVENTION AND CONTROL OF COMMUNICABLE (INFECTIOUS, CONTAGIOUS) DISEASES. PREVENTION OF EPIDEMICS —351.77
.888	Methods of contraception		
.89	Celibacy. Marriage. Monogamy. Polygamy —173, 392.5		
613.9	HEALTH AND HYGIENE IN RELATION TO RACE, AGE, SEX —612.66	.38	
.94	Racial health. Eugenics	.39	
.95	Child health and hygiene —649.1		
.952	Health and hygiene of the newborn (neonate)		
.953	Health and hygiene in early infancy (up to 2 years) Suckling (breast-feeding) Weaning —613.22; 613.287		

614 44	Preventive and restrictive measures	614.8 (cont'd)	614.8:59 Hazards etc. from animals
.441	Obligation to notify diseases		:631 3 Hazards etc. from agricultural machinery
.442	Measures affecting the air		:656.1 Road traffic accidents etc
.443	Measures affecting the soil. Drainage. Reclamation of marshes		
.444	Measures against dust	Special auxiliary subdivisions	
.445	Measures affecting water. Dredging. Filling ditches etc.	614.8-026	Risks and causes of accidents in everyday life
.446	Measures affecting humans. Control of disease carriers, suspected cases etc.	-027	Risks and causes of accidents at work
.447	Measures affecting public places, markets, transport	-05	—613.6
.448	Measures affecting plants, vegetation. Cultivation. Destruction	-06	Accidents according to person injured
.449	Measures affecting animals. Destruction of vermin, parasites (rats, insects etc.) Rodent control. Protection of useful animals	-084	—614.8-05 = Table I(k)-05
	614 449 = 59	614.8 01	Results of accidents
45	Isolation of persons with communicable diseases		Preventive, protective measures
46	Quarantine	Principal divisions	Publicity and propaganda media for accident prevention. Warning notices, signals etc
47	Preventive inoculations in general	614 81	
	—615 37	.818	Hazards from water. Drowning. First aid in cases of drowning
.48	Sterilization. Disinfection	.82	Rescue apparatus. Lifeboats, rafts.
614 6	CEMETERY HYGIENE DISPOSAL OF THE DEAD	.821	Life-jackets. Lifebelts
	—351.776; 718	.822	Hazards from various mechanical and physical causes
61	Cemeteries. Burial of the dead Interment. Entombment	.823	Hazard of falling Accidents due to falls, slipping etc. Safety nets, harness etc.
.62	Cremation Burning, incineration of corpses	.824	Falling, dropping, overbalancing of objects on to persons Crushing
.63	Transport of corpses	.825	Subsidence, collapse, landslip. Burial, smothering
.64	Preservation of corpses. Embalming. Deep freezing, preserving in ice	.826	Suffocation. Asphyxiation. Gas poisoning
.65	Effect of cemeteries on public health	.83	—612.232
	Microbial contamination. Pollution of air, water	.832	Electrical hazards Accidents due to electricity. Electric shock
66	Disinterment. Exhumation	.833	—613.647
67	Post mortems Autopsies	.834	Mechanical shocks, impacts, collisions
	—616-091.5	.835	Explosion hazards
614 7	HYGIENE OF AIR, WATER, SOIL. POLLUTION AND ITS CONTROL		Hazards from excessive pressure, oversteering. Bursts, blow-outs
	—351 777; 628	.837	Chemical explosions
71	Hygiene of the air. Air pollution	.838	Detection of explosive gas mixtures, dispersions
.712	Purification of air. Effect of wind	.839	Hazards due to storage of explosive or flammable materials
.715	Pollution by airborne dust, smoke	84	—614 75
.718	Smells. Effluvia. Noxious emanations	.841	Addition of substances to inhibit explosions
	Miasmas	.1	Various other preventive measures against explosions Safety valves etc.
	—613.157	.2	Restriction, limitation, localization of damage due to explosions
.72	Pollution by noxious gases	.22	Fire hazards. Fires and firefighting.
.73	Radioactive fallout	.23	Protection against fire
	—614.876	.24	Fires: nature, causes, prevention, course, types
75	Precautions with, and handling of, noxious and dangerous substances	.25	Nature of burning process, combustion, extinction
	—351.753; 614.835; 620.26	.26	Causes of fire. Fire risks
76	Pollution of both soil and air. Decomposing animal and vegetable matter. Animal dung Mucking out. Animal corpses	.27	Causes arising from nature of material.
77	Soil. Effect of soil and its effluvia o.. health Topography and health	3	Spontaneous combustion
	—631.4	.31	Natural external causes of fires Lightning. Volcanic eruption
.777	Water. Hygiene of water	.33	Technical defects as causes of fires Fires from explosions. Electrical fires
	—628.1/.3	.34	Faulty construction, building, as cause of fires
.778	Plants and human health	.4	Fires caused by humans. Fires caused by negligence. Deliberately caused fires
.779	Animals and human health		—343.76
	—614.449; 614.76		Fires caused by acts of war, civil disturbance, riots etc.
.78	Urban hygiene. Public health in towns		Fire prevention. Fire regulations. Limitation of fire damage
	—351.777.8; 628, e.g. 628.4; 696.1		Instruction, education in fire precautions. Fire prevention by inspection
.79	Rural hygiene. Public health in the countryside		Fire prevention by construction, building design. Fire-resistant materials. Emergency exits
614.8	ACCIDENTS. RISKS, HAZARDS. ACCIDENT PREVENTION. PERSONAL PROTECTION. SAFETY		—621.316.98; 699.81
	—313.1; 331.82; 351.78; 362.18; 613.6; 62-78; 622.8; 628.5; 656.08		Fire prevention at work: in offices, factories etc.
	614.8:502.5 Hazards etc. from natural occurrences		Course, progress of fire. Type of fire. Particular cases of fire. Fire prevention and control in particular cases

614.841.41	Combustion of different materials. Flammability, ignitability, self-ignition. Course, progress of fire. Fire prevention and control	614.85	Policing of accidents: technical organization. Patrol cars. Accident squads. Road accident units. Radio cars
.42	Fires and fire precautions in nature, countryside. Forest fires, prairie fires etc.	.86	Traffic accidents. Accidents to persons caused by motor and other vehicles and craft. Road accidents. Rescue of travellers, e.g. air search and rescue
.43	Effect of gaseous, flammable material	.862	Passenger protection and safety
.44	Large, widespread fires. Conflagrations of groups of buildings, of large areas	.864	Protection and safety of pedestrians, bystanders etc.
.45	Fires and fire precaution in single buildings	.87	Exposure to ambient influences. Environmental hazards. Personal protection and safety
.46	Fires in rooms. Smaller fires		—613.6; 616-001.1
.47	Fires outside buildings. Fires in storage areas, timber yards, dumps. Fires in excavations, mine workings	.872	Exposure to mechanical influences (pressure, sound, vibrations)
	—622.82	.873	Exposure to temperature variations, cold, heat
.48	Fires in transport systems, traffic. Vehicle fires	.875	Exposure to non-ionizing radiations (light, infra-red, ultraviolet rays etc.)
.492	Fires on humans and their clothing	.876	Exposure to ionizing radiations (radioactivity)
	—616-001.16/.17	.878	—614.73
.842	Notification of fires. Fire alarms. Fire extinguishing technique and tactics. Organization of firefighting	.88	Exposure to irritant substances, chemicals etc.
.4	Notification of fires. Fire alarms. Fire detection and alarm systems. Observation posts	.881	First aid. Casualty and ambulance services
	—654.147; 654.9	.882	First aid posts. Fixed casualty stations
.6	Fire extinguishing technique and tactics.	.883	First aid vehicles. Mobile casualty services
8	Extinguishing materials		Transport of the injured. Ambulances
.81	Organization of firefighting	.885	—629.1-465; 629.114
	Preliminary help at fires. Further action, e.g. by firm's fire officers		Volunteer assistance. St. John's Ambulance Brigade (UK). International Red Cross
.83	Fire brigades. Fire service	.888	—341.33; 362.191.1
.84	Fire stations	.89	Equipment for accident services. Stretchers. Medicine chests. Resuscitation apparatus etc.
86	Structure and personnel of fire brigade. Firemen's equipment, clothing etc.	.891	Hazards to particular parts of the body. Protective equipment and clothing
.9	Emergency use of fire brigades, other than for fires	.892	—613.6; 616-001; 62-78; 687.17; 687.43
843	Firefighting appliances in general	.893	Protection of the head and face. Protective hats, helmets, masks, veils etc.
.1	Fire hydrants	.2	Protection of the ears. Ear-muffs. Ear-plugs etc.
	—621.643.51	.6	Protection of the eyes
2	Fire hoses	.894	Protective glasses, spectacles, goggles
3	Connections Stopcocks		—681.738
	—621.643.4	.29	Protective shields, screens, visors (e.g. arc-welders' shields)
4	Nozzles, jets	.3	Protection of respiratory system. Gas masks
5	Small firefighting devices. Fire buckets	4	Breathing apparatus
	Stirrup pumps etc.	7	Gas masks. Filter masks
.6	Hose reels. Other hose accessories		Filters for gas masks
8	Foam appliances. Foam generators, sprays etc.		Masks for protection against dust
844	Fire extinguishing installations. Sprinkler systems. Combined fire alarm and extinguishing systems		—628.511 and references there
845	Portable fire extinguishers Other devices		Breathing apparatus with chemical and mechanical filters (where sufficient oxygen exists). Respirators without oxygen reservoir
1	Dry extinguishers Powder extinguishers		Breathing apparatus for use in noxious gases, vapours, dusts, with oxygen shortage
2	Wet extinguishers. Liquid extinguishers		Respirators with oxygen reservoir
4	Gaseous extinguishers		Protection of the body Whole-body protection. Diver's suits. Protective clothes, aprons, overalls
5	Foam extinguishers		—614.842 86; 615.479; 626 025; 646; 687.17
9	Other devices Fire blankets Fire beaters etc	896	Protection of the arms and hands Protective sleevelets, gauntlets, gloves, mittens etc
846	Fire-extinguishing jets. Fire engines		Fingerstalls, thimbles etc
	—621 65/.69	.897	—685.4
1	Hand pumps	.898	Protection of the legs and feet Protective leggings, pads, shoes, boots
2	Steam-powered pumps		Protection of the skin generally Protective lotions, barrier creams etc.
3	Motor-powered pumps (internal combustion engine)	614.9	ANIMAL HEALTH. VETERINARY HYGIENE
4	Electric pumps	.91	—591.2; 619; 636.09
5	Other pumps	.94	Preventive measures against communicable diseases in animals
6	Firefighting vehicles Fire engines	.95	Accommodation, housing of animals
	—629 1-477; 629 114	96	Animal nutrition, feeding
9	Firefighting craft Fire-floats		Transport of animals
	—627.357; 629.124 77		
847	Rescue, escape and auxiliary equipment in firefighting		
1	Fire brigade ladders		
7	Rescue equipment. Escape chutes, ropes		
	Jumping sheets etc.		
8	Special vehicles, e.g. for equipment		
9	Auxiliary equipment, e.g. signalling apparatus, floodlights, tools		

614 97	Hygiene of slaughterhouses, knackers' yards etc. Slaughtering methods	615.2	MEDICAMENTS ACCORDING TO THEIR PRINCIPAL ACTION
99	Removal and disposal of animal bodies, carcasses	.21	615.2A/Z Medicaments by name
615	PHARMACOLOGY. THERAPEUTICS. TOXICOLOGY	.211	Agents predominantly affecting the nervous system
	—616-085; 661.12	.212	General anaesthetics
Special auxiliary subdivisions		.213	Analgesics and antipyretics. Narcotics
615 01	Pharmacological details	.214	Antiepileptics. Anticonvulsants
.011	Physical, physicochemical and chemical properties of medicaments		Psycho-pharmacological agents.
012	Production of medicaments (drugs, medicines, remedies). Preparation and purification	.216	Psychotropic agents. Remedies for neurosis, psychoneurosis. Tranquillizers
014	Practical pharmacy. Pharmaceutical practice		Antidepressants. Sedatives. Stimulants
.2	Compounding and dispensing of medicaments	8	Hypnotics, soporifics. Antisoporifics
.4	Storage Preservation Stabilization.		—613.83
6	Activation Sterilization Alteration		Agents predominantly affecting the somatic nerves (sensory and motor nerves), the striated musculature (voluntary, skeletal muscle). Local anaesthetics Myorelaxants.
8	Coating. Encapsulation	.217	Stimulants of peripheral nervous system
	Packaging and containers. Sealing and seals		Agents predominantly affecting the sensory functions
	Closing and closures. Labelling	.218	—612.84/.88
015	Pharmacodynamics. General principles of pharmacology	.22	Agents affection the autonomic nervous system and smooth musculature (involuntary muscle). Antispasmodics. Ganglioplegics etc
.1	Influence of chemical and physical factors	.221	Histaminics. Antihistaminics. Anti-allergic agents
.15	Time factors in pharmacological action	.222	Agents predominantly affecting the heart and circulation Cardiovascular agents
2	Immediate action. Delayed action etc.	.224	Analeptics. Myocardiotonics. Cardiotonics
.3	Combined effects. Action of combination of drugs	.225	Anti-arrhythmic agents. Cardiac depressants
.32	Dose and action (response). Dosage.	.23	Agents affecting the coronary vessels.
4	Dosimetry	.232	Coronary vasodilators
	Homoeopathic dose. Homeopathy	.233	Agents predominantly affecting the blood vessels. Vasoconstrictors. Vasodilators etc.
	Various modes of pharmacological action	.234	Agents predominantly affecting the respiration and respiratory organs
	Chemical and biochemical changes of substance in organisms. Biotransformation	.235	Respiratory stimulants
.5	Tolerance	.238	Cough remedies. Linctuses. Sternutatories
6	Habituation. Dependence. Addiction	24	Errhines. Ptarmics
.7	Tachyphylaxis	.241	Agents against asthma. Antiasthmatics.
017	General and non-specific effect of individual medicaments	.242	Antispasmodics. Antitussives
.03	Clinical pharmacology Application, administration of medicaments Medication	.243	Expectorants
031	Localization	5	Remedies against common cold
032	Methods and routes of administration	.244	Agents affecting the alimentary system, including oral cavity. Gastrointestinal agents
	615.032 $\approx$ 611, e.g	.245	—612.39; 613.2
	615.032.14 Intravenous administration (from 611 14)	.246	Agents affecting appetite, digestion.
033	Absorption and distribution. Diffusion and concentration. Blood level of medicaments		Digestants. Orexigens. Anorexiant.
	—615.033 $\approx$ 611	.25	Roborants Tonics
034	Route of excretion	.252	Remedies for diseases of oral cavity and teeth
	615.034 $\approx$ 611	.254	Remedies for diseases of stomach and duodenum, including ulcers. Antacids etc.
.035	Indication: favourable, unfavourable (contraindication). Misuse		Emetics
036	Clinical results. Statistics etc.		Agents acting on liver and gall bladder.
038	Trial administration		Choleretics. Cholagogues
039	Placebos. Dummy, pseudo-medication	.256	Agents predominantly affecting the pancreas
06	Complication during treatment Side-effects		Remedies for diseases of the intestine.
07	Analysis. Standardization. Identification		Enteral spasmolytics. Adsorbents. Laxatives, aperients. Purgatives. Cathartics.
	Inspection. Physical, chemical, biological tests		Carminatives. Antidiarrhoeics
099	Poisoning (intoxication). Addiction. Special toxicology		—612.334
	Use .099 with subdivisions of 615.2/.3; for general toxicology — 615.9	.25	Agents predominantly affecting the endocrine glands, urogenital system, reproductive functions
	—340.67; 616-099	.252	Agents acting on endocrine glands.
Principal divisions		.254	Antidiabetics etc.
615.1	GENERAL AND PROFESSIONAL PHARMACY		Agents acting on the urogenital system.
	—614.2, especially 614.27		Diuretics. Saluretics. Antidiuretics. Litholytics etc.
.11	Pharmacopoeias. Codices. Formularies.		—612.464
	Prescriptions		Agents predominantly affecting the genital organs. Aphrodisiacs. Contraceptive substances. Oestrogens. Gestagens.
12	Pharmaceutical laboratories and pharmacies		Abortifacients (ambolics). Remedies for menstrual disorders. Lactogenics
15	Pharmacists. Pharmaceutical chemists (dispensing chemists)	.26	Agents predominantly affecting the common integument
19	Other people engaged in pharmaceutical profession. Druggists (unqualified). Herbalists		

615.262	Agents affecting the skin. Astringents. Emollients, demulcents. Rubefacients, irritants etc.	615.451.3	Liquids for local, topical use. Collodions. Glycerines. Liniments. Embrocations. Skin lotions. Gargles. Mouthwashes. Aerosols. Sprays. Preparations for internal douches, enemas
.263	Agents predominantly affecting cutaneous glands, hair, nails. Agents promoting or inhibiting sweating. Sudorifics.	.453	Solid preparations
.27	Antiperspirants. Hair tonics. Depilatories	.1	Dragees (sugar-coated pills)
.272	Agents affecting metabolism and cell functions	.2	Powders. Insufflations. Dusting powders
.273	Agents affecting metabolism. Biochemical agents	.3	Granules. Grains
.275	Agents affecting blood and body fluids. Haemolytics. Coagulants, styptics. Anticoagulants	.4	Capsules. Cachets. Wafers
.276	Agents affecting cell functions. Antirheumatics	.5	Pills
.277	Anti-inflammatory agents generally. Antiphlogistics	.6	Tablets
.279	Agents affecting abnormal cells. Carcinogens. Carcinostatics	.7	Pastilles. Troches. Lozenges
.28	Antitoxins. Detoxicants. Antidotes	.8	Other solid preparations. Medicated sticks, pencils, tobaccos, teas
.281	Agents against pathogenic microorganisms, parasites. Disinfectants. Antiseptics. Chemotherapeutics. Chemicals for hygienic purposes	.454	Semisolid preparations
.282	Antibacterials. Antirickettsials.	.1	Ointments. Pastes. Creams. Gels, jellies
.283	Antispirochaetals. Antivirals	.2	Suppositories
.284	Antimycotics. Fungicides	.3	Cataplasms. Poultices
.285	Antiprotozoal agents	.456	Preparations for parenteral administration
	Anthelmintics. Vermicides	.457	Ophthalmic preparations. Eye lotions. Collyria
	Agents against parasitic Arthropoda, Insecta etc. Insecticides. Insect repellents	.458	Gaseous preparations (for inhalation, insufflation etc.)
615.3	MEDICAMENTS ACCORDING TO THEIR ORIGIN	.46	Medical materials. Surgical dressings
.31	Chemical substances in general	.461	Prosthetic material generally
.32	Substances of natural origin and their mixtures. Drugs in the narrower sense	.462	—616-77
.322	Vegetable substances	.463	Plastics
.324	Animal substances	.464	Gypsum, plaster and cement materials
.326	Natural mineral substances	.465	Ceramic materials. Porcelain
.327	Mineral water	.466	Metallic terials, e.g. pins, nails
.33	Antibiotics. Microbiological substances	.468	Other surgical material, e.g. bone, ivory
.331	Produced by true bacteria	.2	Dressings. Bandages
.332	Produced by actinomycetes, streptomycetes	.4	Textiles. Absorbent lint, gauze. Bandages. Sticking plasters. Gutta-percha tissue
.334	Produced by fungi	.6	Shredded wool and other absorbent materials. Wadding. Cotton wool. Tow. Linen fluff
.35	Enzymes. Vitamins. Hormones	.7	Thread for ligatures and sutures. Catgut etc
.36	Therapy by means of body substances (except hormones)	.47	Dressings ready for use. Plaster-of-Paris dressings
.361	Organotherapy. Opootherapy	.471	Instruments. Apparatus. Equipment and furnishing
.362	Normal body fluids (except blood and serum). External secretion products in general	.472	—616-7
.363	Ants antagonistic to the function of an organ, a body fluid, a body ferment, or a secretion product	.1	Medical and surgical instruments and equipment in general
.365	Anticytolysines. Anticytotoxins etc.	.2	Surgical and medical instruments for therapeutic purposes
.366	Pathological products in general. Diseased organs. Extracts from diseased organs. Pathological exudates etc.	.3	Sets of instruments. Instrument cases
.368	Gynaecological substances	.4	Surgical needles. Clamps etc.
.37	Immunotherapy	.5	Knives. Scalpels. Lancets. Drills. Trephines.
.371	Pathogenic microorganisms. Parasites or their poisons. Vaccines	.6	Other cutting and sawing instruments
.372	Cultures of microorganisms. Toxins. Toxoids. Pasteur's method	.7	Scissors. Forceps. Tweezers etc.
.373	Immune serum. Serotherapy	.473	Catheters. Dilators. Bougies
.375	Other immunizing agents	.1	Instruments for tying off, obturation, tamponning, plugging
.38	Haemotherapy. Blood transfusion. Blood injection. Serum injection	.2	Instruments for cauterization
.384	Blood substitutes. Serum substitutes	.3	Protective and wrapping material for surgical instruments
.387	Preserved blood	.4	Appliances for introduction of medicaments
615.4	PHARMACEUTICAL PREPARATIONS. MEDICAL MATERIAL EQUIPMENT	.5	Apparatus for introduction and drainage of fluids, lavage
.45	Pharmaceutical preparations	.6	For cleaning and treatment of the skin
.451	Liquid preparations	.7	Needles for injection. Hypodermic needles. Cannulae
1	Galenicals. Extracts. Solutions. Infusions. Tinctures etc.	.8	Hypodermic syringes
		.84	Irrigators
		.92	Devices for administering, feeding. Medicine spoons. Droppers. Graduated glasses etc.
		.477	Infants' feeding bottles
		.1	—615.477 84
		.2	Various other appliances for introduction of medicaments
		.21	Orthopaedic material. Trusses. Rubber articles etc.
		.22	Orthopaedic footwear
			—685.3 14 47
			Artificial limbs. Prostheses. Crutches. Walking-sticks
			Artificial arms, hooks etc.
			Artificial legs

615.477 3	Orthopaedic corsets and correctives. Splints	615.825	Active and passive movement therapy
4	Trusses. Suspensories. Other hernia supports, pads etc.		(kinesiatrics). Curative gymnastics. Exercise therapy. Mechanotherapy. Thermomassage
.5	Orthopaedic girdles, hosiery, belts, straps		Electromassage
	Support hose for varicose veins etc.	.827	Chiropractic
.7	Sanitary towels, napkins, tampons	.828	Osteopathy
8	Rubber and plastic articles for nursing, medicine, surgery	83	Physical agents. Nature cures. Naturopathy
.82	Bulbs. Globes. Tubes		—612.014.4; 613.16
83	Finger stalls	831	Phototherapy. Treatment with light, lamps, sunlight. Heliotherapy (solar therapy)
84	Artificial teats for bottles. Dummies		Sunbathing
	—615.473.84		—616.5-001.15
.85	Flexible sounds. Stomach tubes etc.	832	Thermotherapy. Heat treatment Cold treatment
86	Male contraceptive devices. Condoms, sheaths	1	Thermaerotherapy. Aerothermotherapy Hot air bath. Turkish baths Roman baths Dry sweating baths. Saunas
.87	Female contraceptive devices. Pessaries. Intra-uterine devices (IUDs)	4	Diathermy
478	Medical and surgical equipment for hospitals	5	Vapour baths (steam baths) Russian baths Humid sweating baths
1	Complete furnishings for hospitals and clinics		Hot-water bottles Warm sandbags
2	Furniture. Beds. Bedclothes. Sheets Linen Pillows. Mattresses. Air beds. Water beds Bedpans. Urinals (urine bottles)	.6	Thermophores
	—645; 684.4	.7	Cauterization
3	Wheel chairs. Bath chairs. Trolleys. Other means of transport in hospitals	.9	Cold treatment. Psychrotherapy Cryotherapy. Internal and external treatment with ice Ice bags. Cold water irrigation. Dry ice Liquefied air
	—621.86/.87; 629.111 32		Hygrotherapy. Humidity, moisture treatment
.5	Incubators	833	Climatotherapy. Change of air, at sea shore, deserts, forests etc.
6	Equipment for clinical examinations. Surgical, operation, theatre furniture	834	—613.1
.65	Operation chairs	.835	Aerotherapy. Air treatment
.72	Glass cupboards, wall cabinets, stands etc.		Pneumatotherapy. Altitude therapy.
.73	Sterilization apparatus. Autoclaves etc.		Oxygenation
74	Disinfection apparatus. Incinerators, bins, containers for soiled dressings	.7	Kneipp's cure. Kneippism
.76	Spittoons. Suction apparatus for saliva removal	.837	Therapy using sound. Ultrasonic therapy
77	Basins, vessels for the operating theatre	838	Hydrotherapy. Balneotherapy. Water treatment. Water baths Drink cures
78	Adjustable, portable and articulated stands, brackets etc.		Remedial spas
79	Various aseptic utensils for the operating theatre	.1	Partial, local baths. Hipbaths (sitzbaths) etc
479	Clothing for doctors, nursing staff, patients	.2	Hot baths Tepid baths. Temperate baths. Alternating, hot/cold baths
	—685; 687	.3	Cold baths. Cold plunge. Indoor bathing
4	Clothing for doctors and nursing staff		Sea, surf bathing River bathing
	Operation clothes. Face masks. Aprons. Surgical gloves etc.	.4	Wet dressings Wet packs. Wet friction, rub-down
5	Clothing for patients	.5	Gas baths
615 8	PHYSIOTHERAPY. PHYSICAL THERAPY. RADIOOTHERAPY. OTHER NON-MEDICINAL THERAPEUTIC TREATMENT	.7	Warm mud and sand baths Peat baths
	<i>The -7 special auxiliaries listed under 616 are also applicable here</i>	.8	Prolonged bathing
81	Mechanical methods and remedies	.9	Running-water baths Showers Douches
811	Extractive treatment. Derivation. Bleeding Phlebotomy (venesection). Leeches. Cupping	.839	Irrigation. Drink cures
	Induced abscess. Pyotherapy	.1	Thalassotherapy. Sea cure
	—615.324	.2	Local treatment with seawater
.814.1	Needle puncture. Acupuncture	.4	Seawater baths. Warm seawater baths
5	Bee-stinging	.84	Curative sea-voyages, cruises
	—638.178.8	.842	Electrotherapy Radiotherapy.
815	Passive hyperaemia. Bier's treatment	.843	Electrotherapeutics
816	Artificial respiration. Rhythmic movement of breast. Ticing of uvula. Rhythmic movement of tongue	.844	Static electricity. Franklinization
.2	Apparatus for continuous, prolonged artificial respiration in cases of paralysis of respiratory muscles. Iron lungs	.846	Direct, continuous current. Galvanization
	—612.232	.847	Induced, faradic, alternating, undulating current
817	Cardiac massage. Pacemakers	.846	High-frequency current. D'Arsonvalisation
.82	Massage. Mechanotherapy	.847	Radiotherapy. Radiology. Use of microwaves, Roentgen rays (X-rays), ionizing rays, corpuscular radiation
	—613.71	.2	—621.386 and references there
821	Rhythmic kneading or compression. Methodical percussion. Massage of reflex zones	.5	Radioactive substances. Radium and its isotopes
.823	Vibration therapy. Vibromassage	.85	Technique of irradiation: dosage, indication etc.
.824	Friction. Rubbing. Beating with twigs etc.	.851	Various therapies
			Psychotherapy
		.1	—616.89
		.2	Psychic re-education. Suggestion. Autosuggestion. Psychoanalysis as therapy
		.3	—159.964.2
			Hypnosis
			Treatment through work. Occupational therapy
			—615.825

615.851.4	Health guidance. Medical pedagogy. Education of the blind, deaf mutes, the retarded —376	616-001.5	Fractures. Breakage of bones. Perforating fractures. Splinter fractures. Gunshot fractures
.5	Change of milieu, scene, locality. Distractions. Travels	.514	Compound fracture
.8	Mental discipline. Methodical exercises	.52	Callus. Ossification
.852	Faith cures. Prayer, miracle cures	.6	Dislocation. Luxation. Traumatic displacement
.855	Thomsonianism	.7	Sprains. Twisting. Wrenching. Diastasis. Separation of epiphysis
.856	Perkinism. Metallotherapy	.8	Asphyxia. Suffocation. Throttling. Strangling. Drowning
.859	Clinotherapy. Treatment in rest clinics. Rest cures. Sleep cures	-002	Inflammation. Irritation. Engorgement (hyperaemia). Mucous congestion
.86	Treatment of psychoses. Treatment of the insane, mentally deranged	.1	Acute inflammation
.862	Social therapies	.16	Parenchymatous, degenerative, alternative inflammation
.863	Isolation. Seclusion	.17	Interstitial, sclerosing, fibrous, retractive, atrophic inflammation
.865	Continued supervision without restriction of freedom. Open-door methods	.18	Proliferating, hypertrophic, deforming, callous, productive, plastic, obliterative, adhesive hyperplastic inflammation
.866	Restraining devices. Straitjackets. Manacles. Shackles etc.	.2	Chronic inflammation 616-002.2 $\approx$ 616-002.1
.869	Special psychiatric treatment, e.g. shock treatment (insulin) etc. Electroshock (electroconvulsive therapy/ECT) —6.89	.3	Purulent inflammation. Festering. Purulent effusion. Pus. Abscess. Pyosis. Suppuration
.874	Diet control. Abstinence, temperance as therapy. Dietetics (sitology) —641	.34	Boils. Furuncles
.89	Folk medicine. Popular, household remedies	.35	Carbuncles. Anthrax carbuncles
615.9	GENERAL TOXICOLOGY. GENERAL STUDIES OF POISONS AND POISONING (INTOXICATION) —615.099; 615.279	.36	Phlegmon. Gas gangrene. Gangrenous emphysema. Erysipelas
616	PATHOLOGY. CLINICAL MEDICINE	.4	Gangrene. Thanatosis. Decay, decomposition. Necrosis. Caries. Bone decay. Cold gangrene. Colliquation
Special auxiliary subdivisions		.44	Ulcers. Chaps. Scabs
	<i>Applicable throughout 616/618</i>	.46	Decubitus. Bed sores
616-001	Traumata. Injuries. Wounds	.5	Tuberculous lesions. Tuberculosis —616.24-002.5
.1	Traumata due to various physical agents —614.87	.51	Acute tuberculosis
.11	Due to increased atmospheric pressure, compressed air etc. Caisson disease (the bends)	.52	Chronic tuberculosis. Lupus
.12	Due to reduced atmospheric pressure. Altitude sickness. Aviation sickness	.6	Syphilis. Syphilides. Syphilitic rash —616.972
15	Local effect of light	.621	Primary syphilis. Chancre. Primary sore —616.5-002.6
16	General effect of heat. Sunstroke Heatstroke	.622	Secondary syphilis
.17	Local effect of heat. Burns	.623	Tertiary syphilis
18	General effect of cold. Whole-body chilling, freezing. Hypothermia	.66/.68	616-002.66/.68 $\approx$ 616-002.16/ 18
19	Local effect of cold. Frostbite	.7	Granulomatous and nodular inflammation
2	Effects of electricity. Effects of ionizing radiations. Radiation sickness	.71	Pseudotuberculosis
21	Electrical injuries. Lightning-strikes	.73	Leprosy. Leproma —616.982.2
26	Effects of Roentgen rays. X-ray injuries —621.386 and references there	.77	Rheumatism —616.72-002.77
.28	Effects of corpuscular radiation, of radioactive substances	.78	Gout —616.72-002.78
3	Various mechanical and chemical injuries	.8	Inflammations due to plant parasites —616-008.98 616-002.8 $\approx$ 582, e.g. 616-002.828 Fungal, mycotic inflammation (from 582 28) e.g. at 616 5-002.828 Dermatomycoses (fungal infections of skin) Athlete's foot etc
.31	Impact injuries Contusion Bruising	.9	Inflammations due to animal parasites. Parasitic cysts —616-008.99 616-002 93/ 99 $\approx$ 593/599
32	Crushing Blast injuries Crush syndrome	-003	Regressive and reparative processes
33	Stretching Distension	2	Discharge. Weeping. Accumulation
34	Physical shock Jarring Shaking Concussion		Transudate. Exudation Infiltration Efflux
35	Compression Constriction Strangulation (circular constriction)		Spontaneous evacuation. Elimination. Expulsion. Issue
36	Traumatic shock Operative shock	4	Simple retention cysts
37	Effect of chemicals Effect of caustic, corrosive agents	.6	Complaints due to foreign bodies (grit, dust etc.). Exogenous fibrosis and pigmentation
4	Open wounds Abrasion Laceration		Silicosis, pneumoconiosis, asbestosis etc. —616.24-003 6
41	Wounds from sharp edges Cuts. Incisions	.7	Concretions. Calculi (stones). Lithiasis.
42	Contused wounds	.8	Free-moving bodies
43	Lacerated wounds Wounds from stretching, ripping Bites		Anatomical degeneration. Tissue degeneration
45	Gunshot wounds. Bullet wounds		
48	Avulsion Detachment Tearing away		
49	Venomous bites, stings Poisoning from animal bites —616-022 913		

616-003.829	Pigmentary degeneration. Autogenous pigmentation. Chromatosis. Melanosis etc.	616-007.61	Hypertrophy. Hyperplasia. Macrosomia. Gigantism
.84	Deposits, infiltration, degeneration caused by calcareous and other inorganic substances.	64	Ectasia. Stretching. Elongation. Diverticulum
.85	Calcification. Cretification	.7	General physical appearance. Morphological types. Figure. Size
.87	Decalcification	71	Physical beauty
.9	Horny degeneration. Keratosis	.74	Physical disproportion. Ugliness
.92	Cicatriztion. Organization. Reparative processes	.75	Hair colouring: blondes, brunettes etc —57.018.6; 572.523
.93	Scars (cicatrices). Keloids (cheloids)	8	Compound autositic monsters, double, multiple etc.
.94	Regeneration. Tissue renewal	9	Parasitic monsters. Unitary autositic monsters
-004	Encapsulation. Encystment	-008	Functional and metabolic disorders
-005	Sclerosis. Hardening (induration). Cirrhosis —616.13-004.6; 616.36-004	1	Specific functions of individual organs 616-008.1 $\approx$ 616-008.6
	Local circulatory disorders —616.1	.2	Pulse. Retention. Abnormal sounds
.1	Haemorrhage	.22	Sphincteral disorders. Incontinence
.2	Congestion. Active, arterial hyperaemia		Retention
.3	Acceleration of the circulation	.28	Abnormal sounds peculiar to an organ
.4	Stasis. Passive, venous hyperaemia	6	Borborygmus (bowel noise, rumble) Cracking of joints, etc.
.6	Deceleration of the circulation	61	Disorders of secretion, excretion, absorption, permeability. Syndrome peculiar to an organ.
.7	Local anaemia. Ischaemia. Arrested circulation (cessation of blood supply) —616.155.194	63	Auto-intoxication. Functional reactions
.8	Thrombosis. Blood clots		Dysfunction. Functional disorders
.9	Embolisms		Increased activity. Hyperactivity
-006	Infarction. Softening		Overfunction. Excessive response
	Disturbances of the lymphatic system.		Hyperexcitability
	Elephantiasis. Oedema. Dropsy		Irregularity. Instability. Abnormal discontinuity, interruption, dissociation, perversion, degeneration of function.
	Tumours. Neoplasms. Blastomata. Choristomata. Harmartomata. Oncology <i>The following special auxiliary subdivisions are applicable in the subdivisions of 616-006</i>	.64	Intermittent failure, claudication of an organ
	616-006.03 Benign tumours in general		Diminution of function. Reduced activity.
	.04 Malignant tumours (cancers) in general		Hypoactivity. Loss of efficiency. Insufficient response. Hypoexcitability. Inexcitability.
2	Tumours of developmental or embryonic origin. Teratomata, dermoid cysts etc.	.65	Decompensation. Debility of an organ
3	Tumours derived from non-haemopoietic mesenchymal tissue. Sarcomata etc	66	Inactivity. Loss of function
.4	Haemopoietic tumours. Tumours of the nerve tissue	7	Compensatory, supplementary function
43	Tumours of erythropoietic tissue	8	Body gases 616-008.7 $\approx$ 616-008.8
44	Erythroblastomata	81	Body fluids, humours. Products of secretion or excretion
.48	Tumours of lymphoid and reticular tissue	811	Variations of physical properties of body fluids
	Lymphomata. Adenia. Granulomata		Quantity. Volume Increase. Retention
	Myelomata. Chloromata etc.	812	Irregularity. Decrease
.5	Tumours of the nerve tissue Ependymomata	813	Odour. Smell
.6	Neuroblastomata etc.	814	Colour
.8	Benign epithelial tumours. Papillomata.	815	Fluidity. Viscosity. Viscidity
	Adenomata. Polyps	.816	Coagulation. Coagulability
	Malignant epithelial tumours. Carcinomata	.817	Sedimentation. Deposition
	Cancer	818	Density. Concentration
-007	Other kinds of tumour. Melanomata.	.82	Tension. Pressure
	Pigmented moles, naevi		Variations of inorganic constituents in body fluids —546
	Defective structural development. Physiological deformities. Malformations. Hemiterata. Oversized, undersized organs. Teratology. Monsters. Abnormalities —611-012	83	Variations of organic constituents in body fluids —547
.1	Developmental disorders and anomalies.	831	Enzymes in body fluids
.2	Deviations in organic development, growth	84	Presence of various organic substances
.21	Premature development. Precocity. Senilism.	841 5	Presence of blood, of blood plasma
.23	Retarded development. Infantilism	.7	Presence of serum
.24	Defective structural development. Deformities	.842/.848	Secretions of the respiratory, digestive, lymphatic, endocrine, urogenital, skeletal, locomotor, integumentary and nervous systems 616-008.842/.848 $\approx$ 611.2/.8 (which in turn is roughly parallel with 616.2/.8)
.4	Agensis. Stunted growth. Aplasia. Defective development. Hypoplasia. Dwarfism. Nanism.	.85	Presence of other organic substances
.43	Microsomia. Arrested development	.851	Erythrocytes. Red blood corpuscles
.5	Atrophy. Dimunition. Wasting. Resorption	.852	Haematoblasts. Blood platelets
.6	Deformation. Deformities. Amorphism.	.853	Leucocytes. White blood corpuscles.
	Malformation	.854	Phagocytes
	Developmental abnormalities of position.	.855	Fragments of tissue. Desquamated cells
	Displacement. Migration. Dystopia	.87	Coagulated fibrin
	Hernia. Rupture. Prolapse. Descensus.	.88	Presence of microorganisms, bacteria
	Eversion. Inversion		Presence of plant parasites
	Structural deviation, malorientation of organs.		
	Club hand, club foot etc.		
	Developmental abnormalities of excess.		
	Abnormal enlargement		

616-008.89	Presence of animal parasites	616-03	Various forms of disease, of treatment, of administration of medicaments
.9	Organs and tissues. Nutritional balance.		<i>NB the subdivisions of Table I(k)-03 are not applicable under 616</i>
	Morbid metabolism. Disturbances of metabolism, of chemical composition of organs	-031	Localization. Distribution. Confinement to particular site. Absorption by, affinity for, arrest in, particular organs
.97	Carriers of microorganisms, bacteria	.4	Unilateral localization. Confined to one side
.98	Carriers of plant parasites	.5	Bilateral localization. Affecting whole body
.99	Carriers of animal parasites	.61	Central localization. Deepseated. Sub-...
-009	Neural (nervous) disorders		Intra-...
	616-009 $\approx$ 616.8-009	.63	Surrounding. Around. Peri-...
	<i>Use only as auxiliary with subdivisions of 616, not at 616 itself</i>	.64	Adjacent. Beside. Outside of. Para-...
	<i>For neural disorders in general — 616.8-009</i>		Extra-... Juxta-...
616-01/-09	VARIOUS ASPECTS OF DISEASE, PATIENTS AND MEDICAL INTERVENTION	-032	Route of entry, penetration, introduction, e.g. 616-032:611.3 Entry through the digestive system
-018	Histological subdivisions	-033	Route of dissemination, diffusion, dispersal. Passage, e.g. 616-033:611.1 Dispersal through the blood, cardiovascular system
	616-018 $\approx$ 611-018		
	—616-091.8		
-02	Aetiology. Science of the causes of disease	-034	Path of elimination
-021	Various diseases not caused by living organisms. Constitutional organic diseases. Diatheses. Spontaneous, cryptogenic, idiopathic affections etc.	-035	Indications. Choice of treatment. Suitability, appropriateness, advisability
	Diseases caused by living organisms. Bacterial, septic, parasitic affections	.1	Advantages. Favourable conditions.
-022	Inoculation. Infection. Contamination	.2	Favourable indications. Lack of danger
.1	<i>For preventive inoculation — 614.47 and (for substances used) 615.37</i>		Drawbacks. Adverse conditions.
.3	Modes of communication of disease, transmission, contagion, infection	.3	Unfavourable indications (contraindications).
.32	Air-borne	.4	Dangers. Difficulties. Harmfulness. Value.
.35	Water-borne	.7	Importance
.36	Transmitted by humans		Abuse
.38	Transmitted by plants, vegetables	-036	Precautions
.39	Transmitted by animals		Errors. Mistakes. Prejudices. Faults of diagnosis, technique etc.
6	Diseases caused by unidentified viruses, germs, miasmas	.1	Evolution, course, prognosis (of disease, treatment etc.)
.7	Diseases caused by microorganisms, bacteria —616.98	.2	Character of affection. Course. Duration.
.8	Allergic symptoms caused by plants	.21	Acute, galloping; chronic; latent affections
82	Affections caused by particular plants	.22	Incidence, distribution of disease
	616-022 82 $\approx$ 582	.23	Pandemics. National, endemic, regional diseases
85	Affections caused by particular parts of plants	.25	Epidemics. Epidemiology
.852	Mechanical contact with plant hairs	.3	Sporadic, isolated outbreaks
853	Contact with irritant hairs of plants. Nettle stings	.6	Exotic, foreign diseases
854	Contact with pollen	.7	Incubation period. Imminence of disease.
2	Hay fever and asthmatic symptoms caused by inhalation of pollen Pollinosis	.8	Pre-...
855	Contact with plant juices, sap, latex, gum, resin etc.		Initial stage of disease. Onset. Invasion
856	Contact with plant thorns, spines, spikes	.81	Period of morbid condition
857	Contact with milled, ground parts of plants	.82	Maturation
2	Skin diseases from continual contact with flour. Baker's occupational eczema (baker's itch)	.83	Final stage. Termination. Consequences.
9	Diseases and injuries caused by animals	.84	Results. Successes. Setbacks. Failures.
912	Purely mechanical injuries Bites Tooth wounds Pecks Kicks Hoof blows Clawing	.85	Efficacy. Inefficacy. Survival. Statistics.
	Crushing Trampling etc	.86	Mortality in a specific disease
913	Mechanical injuries combined with injection of toxic or irritant substances, or with sucking of blood Venomous bites. Insect bites, stings	.87	Critical period. Crisis. Lysis (abatement)
	—616-001 49	.88	Convalescence. Recuperation
914	Non-mechanical injuries caused by substances ejected, spat, excreted etc by animals (causing injury even without contact with the animals). Injury from sputum, saliva, glandular secretions etc.	884	Complete recovery, cure
915	Injuries from electric phenomena on contact with animals. Shocks from electric eels, rays etc	-037	Spontaneous recovery
916	Involuntary, chance, fortuitous injuries caused by animals. Injuries from animal structures, nests, webs etc.	-039	Delayed recovery. Retarded cure
		-05	Incomplete, partial recovery. Residual weakness, debility. Disabilities. Invalidities.
			Sequelae Crippled condition
			Relapse. Recurrence
			Death
			Apparent death
			Prognostic methods, signs, procedure
			616-037 $\approx$ 616-07
			Special, abnormal, atypical, aberrant, hybrid, paradoxical forms. Pseudo-... In the form of...
			Peculiarities. Variations
			Persons and personal characteristics in pathology. Characteristics of the patient etc.
			616-05 $\approx$ Table I(k)-05, e.g.
			616-051 Persons in active role Medical staff
			-052 Persons in passive role. Patients
			-053 Diseases and treatment according to age

616-053 (cont'd)	616-053.2 Paediatrics. Diseases of infancy and childhood generally	616-083	Hypurgy. Care of patient. Hygiene of the sick
	.9 Geriatrics. Diseases of old age, presenility, senility		Nursing
	-055 Sexual incidence of disease.	.98	616-083.1/7 $\approx$ 613.1/7
	Diseases according to sex	-084	First aid. Emergency treatment
	.1 Diseases in males		Prophylaxis. Public health measures
	—616.64/69		Preventive treatment
	.2 Diseases in females	-085	616-084 $\approx$ 614
	—618		Therapy. Therapeutics Pharmacology
	-056 Constitutional factors in disease	-089	Use only as auxiliary
	Predisposition. Constitution.		616-085 $\approx$ 615
	Resistance		Operative treatment Operative technique
	.1 Disease according to general constitution, disposition, character		Surgery
	.2 Disease according to physical condition, state of health	11	Use -089 and its subdivisions only as auxiliaries with the subdivisions of 616/618. For operative medicine generally — 617-089
	.25 Disease according to nutritional state	15	Anatomical, physiological concepts in surgery. Surgical topography
	3 Disease according to mental condition, psychological state		Indications Choice, suitability, appropriateness, advisability of operations
	.4 Disease according to temperament, complexion	.16	Errors Mistakes
	.7 Hereditary diseases, disposition. Genetically transmitted, congenital diseases	.163	Evolution, course, general conditions in which operation is performed (in town, country, at home etc)
	.8 Diseases caused by habits, inclinations	.165	Preoperative procedure. Preparation of the patient
	-057 Disease according to profession, occupation, job. Occupational diseases. Occupational medicine —613.62	.166	Asepsis Antiseptics
	-058 Social incidence of disease. Disease according to class. Social medicine	.168	The operation
-06	Complications. Consequences. Repercussions. Concurrence, simultaneous state. Correlation. Previous illnesses. Previous state of health. Antagonism of two diseases	23	Completion. Consequences. Results. Success
-07	Semeiology. Symptomatology. Signs and symptoms. Examination. Diagnosis. Propaedeutics	27	Failure. Efficacy. Inefficacy. Statistics
-071	Clinical investigation Examination. Diagnosis Anamnesis. Palpation (touch). Auscultation. Stethoscopy. Phonendoscopy etc.	28	Post-operative care
-072	Instrumental diagnosis	.4	Non-incisional treatment and apparatus
	—616-7; 681.784	41	Extension, stretching. Counter-extension.
.1	Endoscopy	.42	Reduction. Coaptation
.5	Exploratory puncture, paracentesis. Sample taking (e.g. blood sample)	43	Support. Immobilization. Restraint Splints, plaster casts, casing etc
.7	Tests of function. Sensory acuity tests. Artificially induced elimination. Permeability tests	44	Suspension apparatus. Traction
-073	Diagnosis by means of physics. ...graphy, ...metry etc. Radiography, Roentgenography	45	Orthopaedics Orthodontics
	X-ray diagnosis. Electrograms		—616-089 note; 617.3
	616-073 $\approx$ 53	48	Obturation. Occlusion Filling, plugging
	—621.386 and references there	.49	Prostheses Artificial organs, e.g. limbs
-074	Chemical analysis and diagnosis	.5	Dressings Bandages. Tamponning
-076	Microscopic and microchemical analysis and diagnosis. Biopsy	.8	—615 468
.3	Counts. Counting methods		Compresses Poultices
5	Cytodiagnosis. Cytoscopy		Wadding, cotton-wool dressings
-078	Bacteriological, parasitological and humoral diagnosis	81	Binding Bandaging. Bandages
-079	Special diagnostic techniques	811	Kinds of dressing: dry, wet, antiseptic
.2	Topographic diagnosis. Localization of affected part	.812	Tamponning Surgical tampons
.4	Differential diagnosis. Distinguishing similar symptoms of different diseases	814	—615.472 6
7	Retrospective diagnosis	.815	Drainage
-08	Treatment		Renewal of dressings. Frequency of replacement
-082	Medical attendance. Administration of treatment	.8	Surgical anaesthesia
.4	Admission, discharge, transfer of patient		Details by adding -03... (from 616-03)
.8	The patient after discharge. Aftercare. Follow-up	.82	—615 21
			Operative treatment in the strict sense
			Surgery
			Instruments for particular operations are denoted by adding -7 (from 616-7) to the subdivision for the operation
			Minor surgery
			Preventive haemostasis. Ligature of extremities. Esmarch's tourniquet. Induced ischaemia
			Clamping. Forcippresure. Vasotripsy.
			Angiotripsy
			Ligation. Ligature. Filopressure
			Curative tattooing
			—391.91; 616.5-003.6
			Aspiration. Suction
			Filing. Scraping. Curettage. Surgical abrasion.
			Scaling. Rasping. Grinding etc.
			Minor surgery of body cavities and canals.
			Minor intracanalicular, intracelial surgery
			Catheterization
			Internal swabbing. Internal curettage
			Evacuatory puncture, paracentesis. Lancing

616-089.84	Suture. Closure. Sewing up. Stitching. Surgical synthesis. Padding, enlargement. Organ transplants, implants, grafts. Organoplasty. Plastic surgery	616.12 (cont'd)	616.12-007.61 Hypertrophy of the heart. Cor bovinum <i>as well as those below:</i>
.85	Section. Incision. Incisional reduction. Organotomy	Special auxiliary subdivisions	
.86	Fistulization. Anastomosis. Artificial openings. Organostomy	616.12-008	Functional disorders of the heart. Circulatory disorders
.87	Ablation. Resection. Extraction. Exeresis. Organectomy. Disarticulation. Trepanning (trephining) —616.714.1-089.874	.1	Disorders of cardiac activity
.873	Partial resection or ablation. Shortening. Amputation	.3	Changes in heartbeat, rhythm, pulse
.878	Removal, extraction, enucleation of foreign bodies, calculi	.31	Pulse rate. Tachycardia. Fibrillation. Heart block. Bradycardia
.888	Obstetric operations <i>For subdivisions — 618.177-089.888.1; 618.39-089.888.14; 618.5-089.888...</i>	.315	Cardiac arrest. Heart failure. Stoppage of pulse
-091	Pathological anatomy. Morbid anatomy —611	.318	Changes in heart rhythm. Arrhythmia. Irregular pulse. Dropped beats. Pulsus paradoxicus. Pulsus intermittens
.1	The corpse (cadaver) and its alterations, changes. Putrefaction etc.	.33	Arterial pulse. Arterial pressure (blood pressure). Amplitude, quality, tension of pulse
.5	Autopsy. Necropsy. Post-mortem examination —614.67	.331.1	Hypertension. High blood pressure
.6	Exhumation. Disinterment	.4	Hypotension. Low blood pressure. Microsphygmia
.7	Injection of cadaver. Embalming. Preservation of corpse. Plastic regeneration of corpse	.34	Venous pulse. Jugular pulse. Venous blood pressure
.8	Pathological histology. Histopathology. Cell pathology. Cytopathology. Morbid histology —611-018; 616-018	.4	Mechanical disorders of the circulation
-092	Pathological physiology. Processes, mode of action of diseases. Pathogenesis. Study of origin of diseases <i>Use with subdivisions of 616/618, main place is 612</i>	.44	Hyposphyxia
-093/-098	Bacteriological and parasitological studies	.45	Compensation
-093	Microbial techniques	.46	Cardiac insufficiency. Heart strain. Hyposystole. Asystole
-094	Microbial morphology —579.23	-009	Cardiac neurosis. Cardiac paralysis. Cardiac adynamia, asthenia (weakness of heart). Palpitations
-095	Microbial physiology —579.22	.72	Angina pectoris. Stenocardia. Sternalgia. Cardiac neuralgia
-097	Antigens. Antibodies	-039	Heart abnormalities
-098	Microbial physics, chemistry, metabolism, catabolism	-07	Semeiology, symptomatology of the heart. Diagnosis of cardiac conditions
-099	Poisoning. Intoxication <i>Use with subdivisions of 616/618 to denote local effects of poisoning; for toxicology — 615.099; 615.9</i>	-071.4	Palpation, touch in heart diagnosis
616-7	Medical and surgical instrumentation and equipment <i>Applicable under 615.8 as well as 616/618 —615.47; 616-072</i>	.5	Percussion in heart diagnosis
-72	Surgical and therapeutic instruments	.6	Auscultation, stethoscopy in heart diagnosis
-74	Reinforcement and reparative materials and equipment. Dressings. Fillings etc.	-073.97	Electrocardiography. Electrocardiogram (ECG)
-76	Corrective and protective appliances, aids etc.	-089	Heart surgery
-77	Prosthetic materials and parts. Artificial organs etc. —615.461	Principal divisions	
-78	Machines and mechanical apparatus	616.121	Septa of the heart
Principal divisions		.124	Ventricles of the heart
616 1/ 9	SPECIAL PATHOLOGY	.125	Atria (auricles) of the heart
1	Pathology of the circulatory system, blood vessels. Cardiovascular complaints	.126	Endocardium. Lining membrane of the heart. Heart valves
11	Pericardium Epicardium 616 11-002 Pericarditis Inflammation of the pericardium	.32	Valvular incompetence. Valvular stenosis, narrowing
12	Heart Complaints of the atria, auricles, chambers, ventricles, valves. Cardiac complaints <i>Details by special auxiliaries listed under 616, e.g.</i> 616 12-007.4 Cardiopexis Cor pendulum Drop heart Cor mobile Wandering heart	.42	Mitral orifice and valve. Mitral incompetence. Mitral stenosis
		127	Myocardium. Heart muscle. Atrioventricular septum 616.127-005.8 Cardiac infarction. Myomalacia cordis. Softening of the heart
		.13	Arteries 616.13-004.6 Arteriosclerosis. Atherosclerosis. Hardening of the arteries. Calcification of the arteries
		131	Pulmonary artery
		132	Aorta
		.2	Coronary arteries
		.133	Carotid arteries
		134	Subclavian artery
		136	Abdominal aorta
		.137	Iliac arteries
		.14	Veins 616.14-002 Phlebitis. Venous inflammation
		.141	Pulmonary veins
		.142	Cardiac veins
		145	Superior vena cava. Brachiocephalic veins
		.42	Jugular, subclavian, axillary, thoracic veins
			Brachial veins

616.147	Iliac veins	616.22 (cont'd)	616.22-009.1 Laryngeal paralysis.
.17	Haemorrhoidal veins. Haemorrhoidal plexus		Laryngeal and glottal spasms, cramps. Vocal spasm. Singer's spasm
.3	616.147.17-007.64 Haemorrhoids (piles)		-089.85 Laryngotomy
	Femoral, popliteal, saphenous, tibial veins.		Laryngeal cartilages. Thyroid cartilage (Adam's apple) Epiglottis
	Veins of the legs and feet	221	Laryngeal ligaments
	616.147.3-007.64 Varices of the lower extremities. Varicose veins in legs etc.	.222	Laryngeal joints
.149	Portal vein	.223	Laryngeal cavity. Vocal cords. Glottis
15	Blood. Plasma. Serum. Sanguineous complaints. Clinical haematology	.225	Laryngeal muscles
151	Variations in general and physical properties of blood	.229	Trachea. Bronchi
1	Variations of blood volume, total circulating blood or plasma. Blood dehydration Plethora	.231	Trachea (windpipe)
5	Disorders of coagulation, clotting.		616.231-003.6 Foreign bodies in the trachea
	Haemophilia		-008 41 Tracheal cough
.152	Pathological variations of inorganic blood constituents	232	-089 85 Tracheotomy
	—616-008 82	.233	Bifurcation of the trachea
11	Acidosis. Acidaemia. Variations of pH value of blood		Bronchi
153	Pathological variations of organic blood constituents	.24	616 233-002 Bronchitis. Inflammation of the bronchi
	—616-008.83		Lungs Pulmonary complaints
	616 153.2/.9 = 547.2/.9, e.g.		616 24-002 Inflammation of the lungs
	616.153 454 Blood carbohydrates		Pneumonia. Hepatization
154	Various body fluids, secretions, excretions in the blood		.5 Pulmonary tuberculosis.
.155	Diseases of the blood cells, corpuscles		Consumption of the lungs
	—616-008.85		—362.13
.1	Diseases of the red cells, erythrocytes.		-003.6 Pneumoconiosis (foreign bodies in the lungs)
.194	Erythropathies		Anthraxosis (black lung/coal-miner's lung).
2	Diseases of haematoblasts, blood platelets		Dust in the lungs. Silicosis
.3	Thrombocytes		Asbestosis etc.
392	Diseases of the white cells, leucocytes		-005 Circulatory disorders of the lungs. Haemorrhage of the lungs. Pulmonary thrombosis.
157	Leukaemia		Pulmonary embolism.
	Microbial affection of the blood. Bacillaemia		Pulmonary infarction.
.16	Bacteraemia		Pulmonary oedema
2	Capillaries		-007.23 Atrophy of the lungs
	Pathology of the respiratory system.		.288 Atelectasis of the lungs
	Complaints of the respiratory organs		Apneumatos. Collapse of the lungs
21	Otorhinolaryngology (ear, nose and throat) generally Complaints of the nose, nasal mucosa, sinuses		Pneumoplegia
211	Nose. Rhinology		61 Hypertrophy of the lungs
	—611 86		.63 Pulmonary emphysema
	616.211-002 Rhinitis. Inflammation, mucous congestion of the nose. Catarrh. Common cold (coryza). Hay fever		-008 4 Respiratory disorders.
	-005 1 Epistaxis. Nosebleed		Respiratory anomalies.
	-006.5 Nasal polyps		Chest cough. Respiratory tug Yawning Panting.
	-008 Functional disorders of the nose		Breathlessness.
	.4 Deficient respiration.	.248	Suffocation. Dyspnoea
	Snoring. Sneezing.	25	.8 Expectoration. Voiding of sputum. Haemoptysis.
	Snuffling		Coughing blood. Bloody sputum
212	External nose Nostrils (anterior nares). Nasal region Nasal septum		Asthma
.213	Nasal conchae (turbinates)		Pleurae Pleural cavity
214	Nasal ducts, meatus. Nasal mucosa		616.25-002 Pleurisy Pleuritis. Pleural inflammation
.215	Choanae. Posterior nares		.3 Pyothorax. Suppurative pleurisy. Empyema
216	Paranasal sinuses		-003 215 Bloody discharge from pleurae. Haemothorax.
.1	Maxillary antrum		Haemopneumothorax
.2	Frontal sinus		217 Serous discharge from pleurae. Hydrothorax.
218	Vomer nasal organ (organ of Jacobson)		Hydropneumothorax
22	Larynx (voice-box)		.219 Air in the pleurae.
	616.22-002 Laryngitis. Inflammation of the larynx	.26	Pneumothorax
	—616.22-008.5		Diaphragm
	-006 Laryngeal tumours. Laryngeal polyps	.27	616.26-009.24 Hiccough (hiccup)
	-008.4 Disorders of laryngeal respiration. Throat cough	.28	Inner thoracic cavity (mediastinum)
	.5 Laryngeal speech disorders. Dysphonia.		Ears. Otology
	Hoarseness. Aponia. Loss of voice		—611.85
			616.28-008 Functional disorders of the ears

616.28-008 (cont'd)	616.28-008.12 Subjective noises in the ears. Rushing, humming, ringing etc. in the ears. Tinnitus	616.313 (cont'd)	616.313-002 Glossitis. Inflammation of the tongue
	.13 Dysacusia. Distorted hearing. Autophony		-008 Functional and metabolic disorders of the tongue. Discoloration of the tongue. Red tongue (raspberry tongue). Dry tongue etc.
	.14 Hypoacusia. Hardness of hearing. Anacusia. Loss of hearing. Deafness		.8 Coated tongue. Furred tongue
	.15 Deaf-mutism —362.42	.314	Teeth. Odontology. Dentistry
	.5 Loss of equilibrium. Vertigo. Dizziness		616.314-001.4 Dental traumata. Mechanical injuries of the teeth. Tooth abrasion, attrition
	.8 Discharge from the ear. Otorrhoea		.5 Traumatic fracture of teeth. Broken teeth
	-009 Nervous disorders of hearing. Otalgia. Earache		-002 Dental caries (odontonecrosis). Tooth decay
	-072.1 Otoscopy. Optical inspection of ear		-007 Defective structural development of teeth. Dental malformations, anomalies. Impaction. Displacement. Anodontia. Congenital toothlessness
.281	Inner ear. Labyrinth		-008.4 Discoloration of teeth
.284	Middle ear		.8 Tooth incrustation. Dental tartar. Plaque
	616.284-002 Otitis media. Inflammation of the middle ear		-083 Dental hygiene
.1	Tympanic cavity		-084 Dental prophylaxis, public health. Preventive dentistry
	Mastoid process		-089 Dental surgery. Operative dentistry —615.478.65; 615.478.76
.285	Tympanum (ear-drum). Tympanic membrane		.23 Orthodontics. Dento-facial orthopaedics. Correction of tooth position, straightening etc.
.286	Pharynotympanic tube (Eustachian tube)		.27 Filling, stopping of teeth
.287	Auditory ossicles (bones of the ear). Malleus (hammer). Incus (anvil). Stapes (stirrup). Their ligaments and joints		.28 Dental prosthesis. Complete replacement of teeth. Fitting of false teeth, dentures
.288	External ear. Auricle (pinna). Ear lobe etc.		.29 Hanging prostheses. Dental bridgework False crowns
.71	Ear lobe		.5 Dental surgical anaesthesia —615.216
	616.288.71-089.85 Piercing of ear lobe		.818.1 Drilling of teeth. Curettage, scraping, scaling of teeth
.289	Temporal bone		.843 Reimplantation of teeth. Dental implants
.3	Pathology of the digestive system.		.87 Tooth extraction. Exodontia
	Complaints of the alimentary canal		
.31	Stomatology. Oral cavity. Mouth. Diseases of the mouth and teeth		
	616.31-001 Traumata of the mouth. Oral, buccal injuries		
	-002 Stomatitis. Inflammation of the mouth —616.988 43	.11	Crown of the tooth
	.4 Gangrenous stomatitis. Noma. Cancrum oris. Ulceration of the mouth	.16	Root of the tooth
	-006 Oral neoplasms. Tumours of the mouth	.18	Pulp of the tooth
	-008.1 Oral digestion Digestion in the mouth	.21	Superior dental arch. Upper teeth as a whole
	.12 Eating and drinking process. Rapid and slow eating	.22	Inferior dental arch. Lower teeth as a whole
	.4 Oral respiration	.3	Incisor teeth (front teeth)
	712 Bad breath. Halitosis	.4	Canine teeth
	Stomatodysodia	.5	Molars (back teeth)
	-083 Care of the mouth and teeth. Oral hygiene —616 314-083	.8	Wisdom teeth
	-089 Oral surgery	.9	Milk teeth
311	Mucous membrane of the mouth Mucosa of the oral cavity	.315	Roof of the mouth. Palate. Velum. Uvula
2	Gingivae Gums		616.315-007 Defective structural development of roof of mouth. Palatal malformations
	616 311 2-002 Gingivitis Inflammation of the gums. Gingival abscess (gumboil)		.254 Cleft lip and palate. Hare lip. Cleft palate
4	Floor of the mouth. Fraenum linguae (frenulum linguae). Ligament of the tongue	316	Oral glands. Salivary glands. Submaxillary, sublingual glands etc.
312	Gustatory organs (organs of taste). Taste buds —611.87	.5	Parotid glands
	616.312-008 1 Taste disorders. Hypergeusia. Hypogeusia Loss of taste (ageusia)		616.316.5-002.1 Epidemic parotitis. Mumps
313	Tongue Lingual complaints	.317	Lips. Labial complaints
		.318	Cheeks. Buccal complaints

616.32	Pharynx. Oesophagus	616.34-007.43 (cont'd)	616.34-007.43-089.23	Hernia appliances.
321	Pharynx. Throat			Trusses
	616.321-002 Pharyngitis. Pharyngeal inflammation. Sore throat			-008.1 Disorders of intestinal digestion. Intestinal irregularity. Regurgitation
	-008.1 Disorders of deglutition. Difficulty in swallowing (dysphagia) Painful swallowing (odynophagia)			.3 Defaecation Evacuation of the bowels
.322	Tonsils (palatine tonsils/faucial tonsils)			-07 Clinical coprology
	616.322-002 Tonsillitis (amygdalitis). Inflammation of the tonsils			.314.4 Diarrhoea
	.3 Suppurative tonsillitis. Tonsillar abscess			.7 Gases in the bowels. Intestinal wind, flatulence Tympanites
323	Pharyngeal tonsil. Adenoids			.8 Chyle. Bowel contents.
.329	Oesophagus. Gullet			.89 Animal parasites in the bowels. Helminthiasis. Intestinal worms
	616.329-009.1 Oesophageal paralysis, spasms, cramps			-009 Nervous bowel disorders. Nervous intestinal catarrh
33	Stomach. Gastric complaints			.1 Intestinal peristalsis
	616.33-002 Gastritis. Stomach inflammation. Dyspepsia			Intestinal paralysis, spasms, cramps
	Indigestion Gastric ulcer			.74 Intestinal colic
	-005.1 Gastrorrhagia. Gastric haemorrhage			-085 451 36 Intestinal irrigation, lavage
	-006 Gastric tumours. Stomach cancer			
	-008.1 Disorders of gastric digestion			
	.28 Gastric borborygmus (stomach noises).	.341		Small intestine
	Eructation (belching)	.342		Duodenum
	—612.327	.345		Large intestine
	.3 Emesis (vomiting). Gastric mucus. Upset stomach	.346		Caecum (and vermiform appendix)
	—612.327	.2		Appendix vermiformis (vermiform appendix)
	.4 Disorders of the appetite. Excessive appetite (hyperorexia). Loss of appetite (anorexia)			616 346.2-002 Appendicitis. Inflammation of the appendix vermiformis
	—616.89-008.441.42	.348		
	.5 Disorders of sensation of thirst. Excessive thirst (polydipsia). Diminished thirst (hypodipsia)	.35		Colon
	.6 Disorders of gastric secretion and resorption. Auto-intoxication through the stomach	.351		Rectum Anus Perineum
	.7 Gases in the stomach. Stomach wind, flatulence			Rectum
	—616.33-008.28			616.351-085 415.36 Rectal lavage. Enema. Clyster
	.8 Chyme. Stomach contents. Gastric juice. Disorders of chemical processes in the stomach. Acidity, hyperacidity, hypoacidity	.352		Anus. Anal sphincter
	-009 Nervous gastric disorders. Nervous dyspepsia			616 352-008.22 Disorders of the anal sphincter. Faecal incontinence, retention etc.
	.1 Gastric peristalsis. Stomach paralysis, spasms, cramps	.36		-009 613 7 Anal pruritus, itch
	.7 Gastralgia. Stomach ache			Liver. Hepatic complaints
333	Cardia (cardiac orifice/oesophageal orifice)			616.36-002 Hepatitis. Inflammation of the liver
334	Pylorus (pyloric orifice/duodenal orifice)	.367		-004 Cirrhosis of the liver
.34	Intestines (guts). Bowels. Enteric and gastrointestinal complaints	.37		-008.5 Icterus (jaundice)
	616.34-002 Enteritis. Gastroenteritis. Inflammation of the intestines and of gastrointestinal complex. Intestinal ulcers	.379		.6 Secretory disorders of the liver, e.g. of bile secretion
	-005.1 Enterorrhagia. Intestinal haemorrhage			.8 Bile (gall)
	-006 Intestinal tumours. Cancer of the bowel	.38		Bile-ducts (biliary ducts, tracts)
	-007.272 Intestinal blockage, obstruction, occlusion. Strangulated intestine. Ileus. Miserere (iliac passion)	.381		Gallbladder
	.43 Intestinal hernia. Enterocoele	.383		616 366-002 Cholecystitis. Inflammation of the gallbladder
				-003.7 Cholelithiasis. Biliary calculi (gallstones).
				-039 31 Hepatic colic. Gallstone colic
				Common bile-duct (ductus communis choledochus). Duodenal papilla
				Pancreas
				Islets of Langerhans
				616.379-008.64 Hypoinsulinism (insulin deficiency). Diabetes (diabetes mellitus)
				—615.252
				Peritoneum. Omentum. Mesentery
				Peritoneum. Abdominal lining
				616.381-002 Peritonitis. Inflammation of the abdominal lining
				-003.217 Hydropertoneum. Fluid in abdominal cavity. Ascites
				-007.274 Peritoneal adhesions
				Mesentery

616.39	Dietetic diseases. Diseases due to lack or excess of inorganic substances in diet.	616.5-002 (cont'd)	616.5-002.3	Pyoderma. Skin abscesses.
	Vitamin deficiencies. Avitaminoses. Vitamin excesses. Hypervitaminoses			Pustules. Boils. Furuncles.
.392	Vitamin C deficiency. Scorbutus (scurvy).			Carbuncles. Whitlows (felons)
.397	Barlow's disease (infantile scurvy)		.4	Cutaneous gangrene.
.398	Beriberi (deficiency of vitamin B1, thiamine)			Gangrenous dermatitis. Skin ulcers. Mal perforant.
.4	Pellagra (deficiency of nicotinic acid, niacin)		.5	Decubitus. Bed sores
	Pathology of the lymphatic system, haemopoietic organs, endocrines		.52	Cutaneous tuberculosis
.41	Haemopoietic system			tuberculosis. Lupus
.411	Spleen (lien). Splenic complaints		.6	Cutaneous syphilis. Chancre
	616.411-006 Tumours of the spleen		—616-002.621; 616.972	
	-006.32 Endothelioma. Gaucher's disease		.9	Dermatozoonoses. Parasitic skin infections
.419	Medulla (marrow). Myeloid tissue		.951.32	Filaria Cutaneous
	—616.71-018.46			fillariasis.
.42	Lymphatic system. Reticulo-endothelial system		-003.2	Haematoma. Blood blisters
.423	Lymphatic vessels and lymph circulation generally		.6	Cutaneous complaints due to foreign bodies.
	616.423-002 Lymphangitis. Inflammation of the lymph vessels			Exogenous skin pigmentation, e.g. tattooing
.424	Thoracic duct. Receptaculum chyli		.829	Autogenous skin pigmentation. Freckles (lentigo).
.428	Lymph glands (lymph nodes). Lymphatic follicles in general			Depigmentation.
	616.428-002 Lymphadenitis. Inflammation of the lymph glands. Bubo			Albinism
.43	Endocrine glands (ductless glands) in general.		.875	Hard skin. Corns.
	Pituitary gland (hypophysis)			Callosities
	616.43-008.6 Disorders of endocrine secretion		.92	Scars (cicatrices). Weals.
.438	Thymus			Keloids (cheloids)
.44	Thyroid gland. Parathyroid glands		-004	Cutaneous sclerosis (dermatosclerosis). Morbid hardening, induration, of the skin. Scleroderma
.441	Thyroid gland		-005	Circulatory skin disorders.
	616.441-006.5 Struma (single goitre)			Angiodermatitis
	-008.61 Hyperthyroidism (thyrotoxicosis).		.96	Elephantiasis
	Exophthalmic goitre.		.98	Oedema. Anasarca (cutaneous dropsy)
	Graves's disease		-006	Skin tumours. Moles Warts.
	.64 Hypothyroidism.			Verrucas. Naevi. Birthmarks.
	Myxoedema.			Beauty spots
	Pachydermatous cachexia			—616.988.15
447	Parathyroid glands		.38	Von Recklingshausen's disease (neurofibromatosis)
45	Adrenal glands (suprarenal glands)			Subcutaneous nodules.
452	Adrenal medulla			Pachydermatocoele
453	Adrenal cortex	.51		Erythematous, squamous skin diseases
47	Chromaffin system. Carotid body.	.511		Erythroderma. Erythema. Reddening of skin.
	Paraganglia		.514	Exanthema. Rashes. Heat rash.
473	Zuckermandl's bodies		.515	Efflorescences, flat skin eruptions
.5	Skin. Common integument. Clinical dermatology. Cutaneous complaints		.516	Urticaria. Nettle rash (hives)
	—611.77		.517	Prurigo
	616 5-001.1 Skin traumata due to external physical agents.		52	Lichen. Neurodermatitis (nervous eczema)
	Exogenous dermatitis		.521	Psoriasis
	15 Effect of light, of solar radiation on skin.		523	Catarrhal, vesicular, papular skin complaints
	Actinodermatitis Sunburn		.527	Eczema
	Erythema		.53	Herpes. Miliaria (prickly heat)
	17 Local effects of heat on skin Burns Scalds Heat blisters			Pemphigus
	19 Local effect of cold on skin Ice burns Frostbite			Sebaceous glands
	29 Local effect of corpuscular radiation and radioactive substances on skin Radium burns etc			616.53-002 Sebaceous inflammation
	.37 Effect of chemicals, caustics, corrosives on skin Acid burns Alkali burns	56		Acne. Pustules Spots
	-002 Organic dermatitis		-008.8	Disorders of sebum secretion. Seborrhoea (greasy skin). Comedones (blackheads)
	Inflammation of the skin			Sudoriferous glands (sweat glands)
	For exogenous dermatitis — 616 5-001		616.56-008.8	Disorders of sweat secretion. Hyperhidrosis (excessive perspiration) Anhidrosis (lack of perspiration) etc.
	.1 Acute dermatitis Blisters (vesicles, bullae) Blains Scales	.58		Other general skin complaints. Pernio (chilblains). Wrinkles
		.59		Localized skin complaints. Parts, areas of the skin
		591		Epidermis. Skin surface

616.592	Corium (dermis, cutis). True skin	616.67	Scrotum
594	Pilar system. Hair	68	Testes and spermatic cord
.1	Head hair. Scalp. Hair follicles. Erector pili muscles. Hair loss. Baldness. Alopecia. Scurf. Dandruff (seborrhoea capitis)	.681	Testes (testicles)
7	Facial hair. Beard	.682	Epididymis
.8	Supercilia (eyebrows)	.684	Vas deferens
9	Other hair. Body hair	.685	Ejaculatory duct
596	Nails. Fingernails. Toenails. Ungual complaints. Ingrowing toenails etc	.686	Seminal vesicles
599	Stratum subcutaneum. Subcutaneous tissue	.688	Spermatic cord
	616.599-003.219 Emphysema	.69	Sexual life of the male. Functional disorders of the male genital organs
6	Pathology of the urogenital system. Urinary and sexual (genital) complaints		616.69-008.1 Impairment of copulation, coitus, erection, sexual relations
.61	Kidneys. Nephropathy. Renal complaints		.14 Physical impotence
	Metanephros		—616.89-008.442.4
	616.61-002 Nephritis. Inflammation of the kidneys	692	Onset of sexual maturity. Puberty in the male
	-004 Renal sclerosis (nephrosclerosis) Hardening of the kidneys Granular atrophy of the kidneys	693	Male climacteric
	-005 Circulatory disorders of the kidneys. Renal haemorrhage, stasis etc.	694	Old age in the male Artificial rejuvenation
	-008.6 Disorders of renal secretion, excretion. Hyperactivity of kidneys. Kidney failure etc	697	Sterility, infertility in the male
	-78 Artificial kidney (blood-purifying, dialysis) machines	.699	Fertility in the male
611	Glomeruli	7	Pathology of the organs of locomotion. Skeletal and locomotor systems
.612	Tubules	71	Clinical osteology. Bones Skeleton
.613	Renal calyces. Renal pelvis Pyelopathy		616.71-001.5 Fractures Breakage of bones. Callus
	616.613-003.7 Renal calculi. Nephrolithiasis Kidney stones, gravel		-089.2 Non-incisional fracture treatment (bloodless treatment). Bone setting
617	Ureters		-002 Ostitis. Panostitis Bone inflammation
62	Urinary bladder. Urethra. Vesical complaints		-007.1 Developmental disorders and anomalies in bones
	616.62-002 Cystitis. Inflammation of the bladder		.15 Histogenetic bone disorders. Defective or anomalous bone formation, ossification Rickets (rachitis). Acromegaly etc
	-003.7 Vesical calculi Cystolithiasis. Bladder stones, gravel		.233 Osteomalacia Softening of bone
	-008.22 Disorders of micturition Incontinence, retention of urine. Painful urination etc.		.234 Osteoporosis
63	Semeiology, symptomatology of urinary diseases. Disorders of the urinary apparatus		-018.3 Cartilage
	Diuresis		.44 Periosteum
	—612.466		-002 Periostitis Inflammation of periosteum
	616.63-008.6 Auto-intoxication from the urine. Uraemia		.46 Medulla (marrow)
632	Pathological changes in inorganic constituents of urine		<i>For haemopoietic aspects — 616.419</i>
	616.632 ≈ 546		Vertebral column. Spine (backbone)
.633	Pathological changes in the organic constituents of urine		616.711-002 Spondylitis. Inflammation of the vertebrae Vertebral osteomyelitis. Inflammation of the spinal bone marrow
	616.633.2/9 ≈ 547.2/9		—616.721
634	Presence of various body fluids, secretions, excretions in urine	712	-007.5 Curvature of the spine
64	Male genital organs	713	Humpback. Round, flat, hollow back
	<i>For pathology of the female organs — 618.1</i>	.714	.53 Lordosis Forward curvature of the spine
643	Male urethra	1	Bones of the thorax, chest. Rib-cage. Ribs
.65	Prostate gland		Sternum (breastbone)
	616.65-002 Prostatitis. Inflammation of the prostate gland		Skull. Bones of the head
	—616.62-008.22		Cranium
66	Penis		616.714.1-001.5 Fracture of the cranium
662	Prepuce (foreskin)		-006 Cranial tumours
	616.662-007.274 Preputial narrowing, stricture, constriction. Phimosis	.2	-089.874 Trepanning (trephining) of cranium
	-089.87 Remedial circumcision. Surgical removal of prepuce	.3	Cranial vault. Fontanelles
.663	Glans penis		Base of the cranium. Cranial fossae
.664	Urethral passage	.715	616.714.3-001.5 Fracture of the base of the cranium
.665	Corpora cavernosa. Erectile tissue	.716	Cerebral bones of the skull. Occipital. Sphenoid. Temporals. Parietals. Frontal Ethmoid
		1	Facial bones of the skull. Cheekbones (zygomatic bones). Jawbones. Lacrimal bones. Nasal bones. Vomer
		.4	Maxilla (upper jaw)
		.717	Mandible (lower jaw)
			Bones of the upper extremities

616.717.1	Bones of the shoulder girdle. Scapula (shoulder-blade)	616.76 (cont'd)	616.76-002 Bursitis. Tendovaginitis. Inflammation of synovial bursae
.2	Clavicle (collarbone)	.761	Synovial bursae of the head
.4	Humerus (upper arm)	.762	Synovial bursae of the neck
.5	Radius (lesser bone of forearm)	.763	Synovial bursae of the thorax (chest)
.6	Ulna (greater bone of forearm)	.764	Synovial bursae of the shoulder and axilla (armpit)
.7	Bones of the wrist and hand in general. Carpal bones (wrist bones)	.767	Synovial bursae of the arms and hands
.8	Metacarpal bones (bones of the mid hand)	.768	Synovial bursae of the legs and feet
.9	Finger bones. Phalanges of the fingers and thumbs	.8	Neurology. Neuropathology. Nervous system
.718	Bones of the lower extremities. Legs	Special auxiliary subdivisions	
.1	Bones of the pelvic girdle. Pelvis (hip-bone)	616.8-008.6	Neural dysfunctions. Nervous syndromes
.2	Ischium	-009	Neural (nervous) disorders
.3	Pubis (pubic bone)	.1	Disorders of motor functions, locomotion, movement, muscle tonus
.4	Femur (thighbone). Patella (knee cap)	.11	Paralysis (palsy). Paresis (partial paralysis)
.5	Tibia (shinbone)		616.8-009.11-031 Localization of paralysis. Hemiplegia, paraplegia etc.
.6	Fibula (lesser leg-bone)	.12	Spastic paralysis and paresis. Spasmophilia. Contractures. Cramps. Spasms. Hypertonia
.7	Tarsal bones. Arch of foot (instep). Talus (ankle-bone). Calcaneum (heel-bone)		616.8-009.12-057 Occupational cramps
.8	Metatarsal bones (bones of the mid foot)		:651.921 Writer's cramp
.9	Toe bones. Phalanges of the toes	.15	Catalepsy
.72	Clinical syndesmology. Articulations (joints). Sutures. Articular complaints. Arthropathies	.18	Disorders of bodily attitude, posture. Disorders of walking, running, jumping. Neurological claudication, lameness, limping
	616.72-001.6 Luxations, dislocations of joints	.2	Involuntary or uncoordinated movements. Dyskinesia
	-089.21 Non-incisional reduction of dislocations (closed reduction)	.24	Convulsions. Clonic spasms. Motor excitation. Fits. Seizures
	-002 Arthritis. Articular inflammation. Panarthrititis	.29	Nervous tics. Twitching. Repetitive movements
	.77 Articular rheumatism. Polyarthrititis rheumatica. Rheumatoid arthritis	.3	Trembling. Muscular tremor. Myokymia. Shakes. Fibrillary contractions
	78 Gout. Podagra		616.8-009.3-053.9 Trembling in the elderly, old age. Senile tremor
721	Articulations of the spine and cranium	.5	Muscular hypertrophy and atrophy of nervous origin
.722	Costo-vertebral articulations. Rib joints at spine	.6	Disorders of sensory perception
723	Sterno-costal articulations. Rib joints at breastbone	.61	Disorders of tactile sense (touch, feeling)
.724	Mandibular articulations. Joints of jawbone	.611	Hyperaesthesia. Tactile hypersensitivity
.727	Articulations of the upper extremities	.613	Distortion of tactile sense. Paraesthesia. False sensation. Dysaesthesia. Impaired sensation
.2	Humeral articulation. Shoulder joint	.7	Pruritus. Skin irritation, itch
.3	Cubital articulation. Elbow	.614	Hypoaesthesia. Diminished sensation. Morbid anaesthesia. Loss of sensation
.4	Articulations of the hand, wrist, fingers		—616-089.5
.728	Carpal, metacarpal, phalangeal joints	62	Disorders of sense of pain
2	Articulations of the lower extremities	.621	Hyperalgesia. Excessive sensitivity to pain
.3	Coxo-femoral articulation. Hip joint	.624	Hypoalgesia. Diminished sensitivity to pain. Morbid analgesia. Insensitivity to pain
.4	Tibio-femoral articulation. Knee joint		—616-085
.5	Tibio-fibular articulation. Ankle joint	63	Disorders of heat sensation (sense of warmth)
74	Tarsal articulations. Joints of the foot	.631	Thermohyperaesthesia Excessive sensitivity to heat
	Clinical myology. Muscular system	634	Thermohypoaesthesia. Diminished sensitivity to heat. Thermoanaesthesia Insensitivity to heat
	Skeletal musculature	7	Pain Neuralgias. Topalgia Localized neural aches and pains
	—612 746	81	Reflex disturbances. Pilomotor reflex. Gooseflesh etc.
	616 74-001 4 Muscular wounds, cuts, lacerations. Muscular tears, avulsions	.83	Disorders of sensorium, entire sensory apparatus. Loss of consciousness
	-002 Myositis Muscular inflammation	831	Coma Sopor. Collapse. Stupor
	-007 23 Muscular atrophy. Amyotrophy. Myatrophy	.832	Lipothymia Syncope. Fainting. Swooning
741	Dorsal muscles Muscles of the back	.833	Semiconsciousness. Twilight states
742	Muscles of the head and face Nasal, auricular, ocular, oral muscles Masticatory muscles	834	Automatism. Fugue. Involuntary actions. Non-volitional behaviour. Porriomania. Dromomania
743	Cervical muscles Muscles of the neck	835	Somnambulism (sleepwalking)
745	Thoracic, pectoral muscles Muscles of the chest	.836	Sleep disturbances Lethargy. Somnolence. Narcolepsy. Insomnia. Sleeplessness
746	Abdominal and coccygeal muscles	.15	Dreams. Nightmares
747	Muscles of the upper extremities Shoulder, arm, hand muscles	.85	Trophic disturbances
748	Muscles of the lower extremities. Hip, buttock, leg, foot muscles		—616.8-009.5; 616.89-008.441.42
75	Clinical tenology. Ligaments. Tendons		
	Sinews. Fasciae. Aponeuroses		
	616 75 = 616.74		
76	Synovial bursae. Synovial sheaths		

616.8-009.86	Vasomotor, angioneurotic disorders. Vascular spasms. Morbid vasoconstriction, vasodilation. Angioneurotic oedema etc.	616.833.17 (cont'd)	616.833.17-009.11 Prosopoplegia. Paralysis of facial nerve. Bell's palsy
.87	Thermal disorders. Local temperature variations	.2	Spinal nerves. Roots of spinal nerves.
.88	Disorders of the reflexes. Inhibition of reflexes	.3	Radicular complaints
616.8-056.7	Hereditary, congenital nervous disorders. Genetic neuropathology	.5	Cervical nerves
Principal divisions		.58	Lumbar and sacral nerves. Lumbar, sacral, genital plexuses. Gluteal nerves (nerves of the buttocks)
616.83	Organic diseases of the nervous system	.834	Sciatic nerve
.831	Organic diseases of the brain		616.833.58-009.7 Sciatica
	Encephalopathies. Cerebral complaints		Nerve ganglia in general. Cerebrospinal ganglia
	616.831-001.34 Cerebral concussion		616.834-002.152 Acute ganglionitis.
	-002 Encephalitis. Inflammation of the brain	.839	Herpes zoster (shingles)
	-005 Circulatory disorders of the brain		Autonomic nervous system. Sympathetic (vegetative, visceral) and parasympathetic nervous systems
	.1 Cerebral apoplexy.	.1	Sympathetic nervous system in general
	Cerebral haemorrhage	.6	Parasympathetic nervous system Vagal autonomic system
	Stroke		Organic neuroses. Neuropathies
	.6 Cerebral thrombosis	.85	Chorea. St Vitus's dance. Huntington's chorea. Athetosis
	.7 Cerebral embolisms	851	Epilepsy. Falling sickness
	-009.7 Cephalalgia. Pain in the cerebral region. Headache	.853	Tetany
	—616.857	.854	Migraine (megrin)
	-089 Brain surgery	.857	—616.831-009.7
.2	Localizations. Disorders of particular functional centres in the brain	.858	Paralysis agitans (shaking palsy, Parkinson's disease)
.3	Prosencephalon (forebrain) Telencephalon. Cerebral cortex etc.	.859 1	Nausea. Malaise. Sickness of various origins. Motion sickness (travel sickness).
.4	Diencephalon (thalamencephalon). White commissures. Hypothalamus		Sea-sickness, air-sickness, car-sickness etc.
5	Mesencephalon (midbrain). Quadrigeminal bodies. Cerebral peduncles etc.	.89	Psychiatry. Pathological psychiatry. Psychopathology. Phrenopathies. Psychoses. Mental abnormality. Morbid mental states. Behavioural and emotional disturbances
.7	Metencephalon (hindbrain). Rhombencephalon. Cerebellum. Pons Varioli etc.		—159.9, esp. 159.97; 612.821; 615.851
.8	Myelencephalon. Medulla oblongata (cerebrospinal bulb)		Special auxiliary subdivisions
.9	Cerebral meninges	616.89-008	Mental disorders and their symptoms.
	616.831.9-002 Meningoencephalitis.		Psychiatric symptomatology
	Cerebral meningitis.	.42	Disorders of sensation and perception.
	Inflammation of the cerebral meninges		Hallucinations. Illusions. Hallucinatory deliriums, psychoses. Hallucinoses
.832	Organic diseases of the spinal cord and medulla (also diseases of the spinal cord and part of the nervous system). Myelopathies	.428 11	Euphoria
2	Grey matter of the spinal cord	.43	Disorders of movement, of motor functions, as psychic processes
.21	Anterior and lateral horns	.434	Disorders of expression, speech. Lalomania. Coprolalia. Logorrhoea. Psychotic loquacity
	616.832.21-002 Inflammation, myelitis, of the spinal grey matter (in the anterior horn).	.37	Disorders of enunciation, pronunciation.
	Poliomyelitis (infantile paralysis)		Articulatory incoherence. Dyslalia
	—616.988 23	.5	Loss of power of speech and of verbal apprehension. Aphasia. Alexia. Dyslexia.
4	White matter of the spinal cord. Nerve fibres of the grey matter. Ataxia	.437.2	Word-blindness, letter-blindness etc.
.8	Central canal of spinal cord. Ependyma	.44	Convulsive, spasmodic laughter and crying
.9	Meninges in general and spinal meninges	.441	Disorders of feelings, emotions, instincts, passions
	—616.831.9		Disorders of instinct of self-preservation.
	616.832.9-002 Spinal meningitis.		Fixed ideas. Obsessions. Obsessive fears.
	Inflammation of the spinal meninges. Spinal meningomyelitis		Anxiety. Pathological insecurity, worry, fright, terror
.91	Pia mater	—616.891.6	
.95	Dura mater	616.89-008.441-039.13	Nocturnal terrors
.833	Peripheral nervous system. Neural plexuses	—616.8-009.836.15	
	616.833-002 Peripheral neuritis.	.1	Irrational fears. Phobias. Bacillophobia (germ phobia). Pathophobia (dread of disease), hypochondriasis (often called hypochondria).
	Inflammation of the peripheral nerves		Topophobia (dread of certain places).
	-009.7 Peripheral neuralgia		Claustrophobia (dread of confined spaces).
	-089 Peripheral neurosurgery		Agoraphobia (dread of open spaces) etc.
	.85 Neurotomy. Transection of a nerve		—159.974;
.1	Cranial nerves. Sensory nerves		for hypochondria in the strict sense
.15	Trigeminal nerve		— 616.895.4
	616.833.15-009.7 Trigeminal neuralgia.		
	Prosopalgia		
.17	Facial nerve		

- 616.89-008.441.3 Pathological perversions. Compulsive swallowing of objects. Coprophagia. Skatophagia (scatophagia). Toxicomania. Algophilia. Algotagnia. Fascination with pain. Pathological masochism
—616.89-008.442.332/.335
- .42 Sitophobia. Pathological aversion to food. Compulsive fasting. Anorexia nervosa
- .44 Suicide
- .45 Self mutilation
- .442 Sexual psychopathology. Psychosexual abnormalities. Sexual deviations, perversions. Erotomania. Satyriasis. Nymphomania
—Table I(k)-055.3;
for physical abnormality — 616-007, e.g. 616.6-007; cf 612.6.08
- .3 Sexual deviations, perversions
—176.4
- .31 Exhibitionism
- .32 Fetishism. Frottage
- .332 Sadism
- .335 Masochism
—616.89-008.441.3
- .34 Necrophilia. Necrosadism
- .36 Sexual inversions. Homosexuality. Bisexuality. Male and female homosexual acts. Tribadism. Sodomy etc.
- .38 Incest
- .4 Lack of sex drive. Psychological impotence. Frigidity. Anaphrodisia. Misogyny. Androphobia
—616.89-008.1
- .6 Narcissism
- .444 Disorders of the moral instincts. Moral insanity. Moral depravity
—17
- .1 Self-accusation. Self-deprecation. Self-abasement. Obsessive guilt. Obsessions with culpability, unworthiness, humility, expiation, atonement etc. Micromania. Inferiority complex
- .2 Obsessive jealousy
- .4 Egotism. Obsessive selfishness. Misanthropy. Unsociability. Suspiciousness. Taciturnity etc.
- .5 Vanity. Conceit. Pride. Contemptuousness. Scorn. Disdain. Irony. Ambition. Megalomania. Delusions of grandeur
- .61 Extravagance. Compulsive spending, buying
- .63 Avarice (covetousness)
- .64 Kleptomania. Compulsive stealing, theft
- .7 Hatred. Mistrust. Querulousness. Sense of grievance. Nursing of grudges. Persecution mania
- .8 Pyromania (incendiarism). Compulsive arson. Fire-raising. Fire-bugs. Destructive mania
- .9 Pathological anger, rage, fury. Aggressiveness. Cruelty. Brutality
- .445 Disorders of religious and political sentiments. Mystical, religious mania. Miracles, ecstasies, visions. Reforming zeal
—231.73
- .446 Disorders of the aesthetic and intellectual faculties. Intellectual manias
- .447 Disorders of behaviour, conduct. Coquetry. Negligence, slovenliness. Dirtiness. Improperly. Indecency
- .45 Disorders of ideation (thought formation), abstraction, judgement. Disturbance of reasoning, imagination, ordering and association of ideas
- .451 Flight of ideas. Blankness of mind
- .452 Delirium. Oneric and occupational delirium
- .453 Mythomania. Compulsive exaggeration. Pathological lying. Pretence. Make-believe. Dissembling. Confabulation
- .454 Decline, degeneration of mental power. Depression. Mental incoherence. Weakening of intellect. Feeble-mindedness. Dullness. Stupidity
- 616.89-008.46 Disorders of memory. Abnormally high recall (hypermnnesia). False recall (paramnesia). Loss of memory (amnesia)
- .47 Disorders of attention. Loss of power of concentration. Aprozexia
- .48 Disorders of the will-power, activity, character, behaviour, condition
- .481 Hyperbulia. Pathological overactivity. Disordered activity. Agitation. Compulsive working
- .483.2 Obstinacy. Compulsive assertiveness. Negativism. Compulsive contradiction
- .484 Abulia. Pathological inactivity. Apathy. Indifference. Passivity. Loss of confidence
- .485 Disorders of the personality. Alteration, fragmentation, dissociation of personality. Split personality
- .486 Alteration of character
- .487 Mental dissociation
- .488 Work, play and occupation of the mentally disordered
- Principal divisions**
- 616.891 Psychoneuroses (neuroses)
—616.85
- .2 Hysteria
- .4 Neurasthenia. Nervous exhaustion, prostration. Abnormal fatigue from neurotic causes. Nervous breakdown
- .6 Anxiety neurosis. Pathological or psychoneurotic anxiety state
—616.89-008.441
- .7 Obsessive-compulsive psychoneurosis. Obsessional and compulsive neuroses (psychasthenia)
- .892 Organic psychoses. Psychoses of organic, nervous origin
- .2 General paralysis of the insane. Dementia paralytica
- .3 Senile psychosis. Senile dementia. Presbyophrenia
- .893 Acute mental confusion. Acute delirium (toxic, febrile, infectious exhaustion)
- .894 Chronic organic reactions. Chronic states of confusion. Organic dementia (organic mental deterioration)
- .895 Functional, emotional, affective psychoses. Psychogenic mental disorders. Deranged states
- .1 Manic-depressive psychosis
- .2 Mania (elation, euphoria, communicative excitement). Manic state
- .3 Cyclothymia. Variability of mood. Alternating, periodic, cyclic states
- .4 Melancholia. Hyposthenia. Depressive psychosis. Hypochondria (morbid low spirits). Pathological grief. Depressive state
—159.974;
for hypochondria as dread of disease — 616.89-008.441.1
- .7 Paranoia. Paranoid reactions with systematized delusions
- .8 Schizophrenia. Dementia praecox. Paranoid schizophrenia
- .899 Mental deficiency (amentia). Retarded mental development
- .2 Dull-wittedness and mental retardation
- .3 Feeble-mindedness. Moronism (mental age of 8 to 12 years)
- .5 Imbecility (mental age of 2 to 7 years)
- .6 Idiocy. Mongoloid idiocy
- .7 Cretinism. Cretinoid idiocy
- .9 Communicable diseases. Infectious and contagious diseases, fevers
- .91 Acute infectious febrile diseases
- .912 Variola. Alastrim. Smallpox. Cowpox
—616.988.13
- .914 Varicella. Chicken pox
- .915 Morbilli. Measles
- .916.1 Rubella. German measles
- .917 Scarlatina. Scarlet fever

616 921.5	Influenza	616.988 51	Mumps (epidemic parotitis)
.8	Pertussis. Whooping cough		—616.316.5-002.1
	—616.981.46; 616 988.7	55	Glandular fever (infective mononucleosis)
927	Typhoid fever. Enteric fever		—616.155.3
	—616.981.71	.6	Transmissible tumours of viral origin Rous sarcoma. Rabbit fibromatosis etc.
.7	Paratyphoid fever	.7	Catarrhal virus infections. Yellow fever
928.5	Oriental sore (Delhi boil. Aleppo boil or ulcer)	.73	Avian virus infections. Psittacosis (parrot disease) etc.
931	Diphtheria		Parasitic infections of plant or animal origin
932	Cholera	.99	—616-002.8/ 9
934	Psilosis. Sprue. Intestinal moniliasis. Tropical stomatitis. Hill diarrhoea		<i>Class here infections not provided for in 616 91/.97 and which cannot be classed with a particular part of the body</i>
935	Dysentery. Dysenteriform tropical diarrhoea	992	Infections with plant parasites. Phytoses, mycoses etc.
936	Malaria. Marsh fever. Paludism		616.992 ≈ 582
937	Trypanosomiasis. Trypanosome fever	.993	Infections with animal parasites. Zoonoses
	Sleeping sickness	.161	Leishmaniasis Kala-azar
94	Septic diseases. Septicaemia Pyaemia.	.19	Sporozoa infections. Coccidiosis
	Sapraemia Phagedaenia Hospital gangrene		Anaplasmosis Piroplasmosis
97	Venereal diseases. Venereology	995 1	Worm infestations Helminthiasis
	—616-002.6; 616.5-002.6; 616 6	.122	Liver fluke infestation Lung trematode infestation. Blood trematode infestation.
972	Syphilis		Bilharziasis. Schistosomiasis
973	Gonorrhoea	.132	Nematode infestations Threadworm.
.98	Specific infections (Infections due to particular organisms. Bacterial and viral infections)		Trichuriasis. Filariasis. Ascariasis
	<i>Class here infections not provided for in 616.91/ 97 and which cannot be classed with a particular part of the body</i>	.42	Hookworm. Ankylostomiasis
.981 2	Coccal infections	7	Acariasis. Mite infections. Tick fever.
21	Streptococcal infections Erysipelas. St Anthony's fire		Itch-mite. Scabies Mange
.23	Gonococcal infections Cerebrospinal fever.	617	Insect infestations. Myiasis (fly-disease) etc
	Epidemic meningitis (spotted fever)		SURGERY. ORTHOPAEDICS.
3	Spirillum infections		OPHTHALMOLOGY
.33	Spirillooses, e.g. of abortion. Rat-bite fever		Special auxiliary subdivisions
.42	Brucellosis. Undulant fever. Malta fever		<i>The special auxiliary subdivisions listed under 616 are also applicable here, with certain additions:</i>
.45	Pasteurella infections Haemorrhagic septicaemia. Plague Bubonic plague. Tularaemia	617-007 281	Loosening. Detachment
	Haemophilus infections	-089	Operative medicine. Surgical technique
46	Salmonellosis		<i>For further subdivisions — 616-089 ..</i>
49	—613.2-099	843	Grafting. Implantation. Transplantation
.51	Anthrax. Woolsorter's disease	.844	Autoplasty. Plastic surgery. Reconstruction.
55	Tetanus (lockjaw) Botulism		Organoplasty
	—613 2-099		Principal divisions
.57	Clostridium infections, especially Clostridium welchii. Gas gangrene	617.3	Orthopaedics in general
.71	Rickettsioses. Typhus Trench fever. Japanese flood fever. Mite-borne fever.	.5	—616-089 23
	Scrub typhus		Regional affections
	—616.927		617.5 ≈ 611.9
.75	Bartonellosis. (Oroya fever, Carrion's disease, Peruvian wart or haemorrhagic pian)		617.5-089.844 Regional autoplasty Plastic surgery of particular parts of the body.
.982.1	Actinobacillosis. Actinomycosis		Reconstruction of particular organs
	—616-002.828	7	Ophthalmology. Eye disorders and treatment
17	Erysipeloid		—611.84; 681.784
2	Mycobacterial infections. Tuberculosis.		Special auxiliary subdivisions
	Leprosy. Glanders (strangles)	617.7-001.15	Effect of light on the eye
	—616-002.5; 616-002.73; 616.931	31	Ocular contusion. Bruising of the eye Black eye
986	Spirochaetosis		Effect of caustic, corrosive agents on the eye
	—616-002 6; 616 97	37	Ocular inflammation generally. Ophthalmia.
.7	Leptospirosis (swamp fever). Leptospiral jaundice (Weil's disease)	-002	Ophthalmitis. Bloodshot eye
988	Virus infections	-003.6	Foreign bodies (grit, dust etc.) in the eye
.1	Exanthematous virus diseases	-006	Tumours of the eye
.13	Pox group	-007	Malformations of the eye
	—616.912/.914	.681	Glaucoma
.15	Wart group. Infective warts		—617.749
	—616.5-006	-009.73	Photophobia. Ocular intolerance of light
.2	Neurotropic virus infections	-072.1	Ophthalmoscopy
.21	Rabies. Hydrophobia. Lyssa		617.7-072.1-7 Ophthalmoscopes
.23	Paralytic virus infections. Poliomyelitis (infantile paralysis)	-089	Treatment of the eye. Eye surgery
	—616.832.21		—614.893; 681.73
.25	Encephalitis lethargica. Epidemic encephalitis.	.26	Eye-patches
	Sleepy sickness	.28	Ophthalmic prostheses. Artificial eyes. Glass eyes etc.
.41	Trachoma	.878	Enucleation from the eye
.43	Foot-and-mouth disease. Aphthous fever.		Principal divisions
	Epidemic or epizootic stomatitis	617.71	Fibrous coats, tunics of the eye
	—616.31-002		

617.711	Conjunctiva	618 (cont'd)	<i>The special auxiliary subdivisions listed under 616 are also applicable here, with certain additions:</i>
	617.711-002 Conjunctivitis. Inflammation of the conjunctiva	618-007.44	Proptosis. Prolapse
	-089.843 Transplantation of the conjunctiva	-021.3	Spontaneous affections
.713	Cornea	-089.888	Obstetric operations
	617.713-002 Keratitis. Inflammation of the cornea		<i>For subdivisions — 618.177-089.888.11; 618.39-089.888.14; 618.5-089.888...</i>
.715	Sclera. Sclerotic coat. White of eye	Principal divisions	
.72	Anterior segment of eye. Uvea	618.1	Gynaecology. Pathology of the female
.721	Iris. Pigmented layers of eye. Pupil		<i>For pathology of the male — 616.64</i>
.723	Choroid		618.1-089 Gynaecological surgery.
.725	Ciliary body. Ciliary process		Gynaecological operations
.726	Accommodation	.11	Ovaries. Ovarian follicles (Graafian follicles).
.73	Retina. Optic nerve		Disorders of ovulation
.731	Optic nerve		618.11-006 Ovarian tumours. Ovarian cysts
.735	Retina		-089.87 Ovariectomy.
	617.735-002 Retinitis. Inflammation of the retina		Oophorectomy. Surgical removal of the ovaries.
	-007.281 Detachment of the retina		Ovarian sterilization
	-072.1 Ophthalmoscopy of the retina	.12	Oviducts (Fallopian tubes)
.74	Dioptric apparatus of the eye		618.12-089.87 Salpingectomy. Surgical removal of Fallopian tubes.
.741	Lens		Tubal sterilization
	617.741-004.1 Cataract. Opacification of the lens	.13	Periuterine organs. Uterine ligaments. Female pelvis and peritoneum. Recto-uterine pouch
.747	Vitreous humour. Vitreous body	.14	Body of the uterus (womb). Uterine cavity.
.749	Aqueous humour. Anterior and posterior chambers		Uterine glands. Endometrium (uterine mucous membrane). Myometrium (uterine muscular coat)
.75	Dysopia. Disturbances of vision. Eyesight defects		618.14-002 Metritis. Endometritis.
751	Visual acuity (VA). Degree of sharpness of sight		Inflammation of the uterus, of the endometrium
	617 751-072.7 Determination of visual acuity. Sight tests. Test charts. Optotypes. Optometry		-005 Circulatory disorders of the uterus. Uterine bleeding, haemorrhage. Metrorrhagia.
.6	Amblyopia. Dimness of vision in normal light (VA between 6/7.5 and 3/60)		Metrostaxis. Uterine congestion. Uterine stasis.
.9	VA less than 3/60. Virtual and total loss of acuity		Uterine oedema
.98	Blindness. Loss of sight		-006 Uterine tumours, cysts, myomata. Hysteromyoma
.753	Errors of refraction		Cancer of the uterus
.1	Hyperopia (hypermetropia) (mean spherical error positive). Far-sightedness.		-007.44 Prolapse (proptosis) of the uterus. Hysteroptosis (metropiosis). Fallen womb
.2	Long-sightedness		.5 Structural deviation, malorientation of the uterus.
.3	Myopia (mean spherical error negative).		Elongation, anteversion, retroversion, lateroversion etc. of the uterus
.4	Near-sightedness. Short-sightedness		-072.1 Endoscopy of the uterus.
.754	Astigmatism		Intra-uterine examination
7	Presbyopia		-085.472.5 Use of dilators (laminaria) in the uterus
755	Visual field		.473 Irrigation, douching, lavage of the uterus
7	Scotoma. Dark spot (morbid blind spot)		-089 Treatment and surgery of the uterus
8	Disturbances of light sense (photoreception), of light sensitivity, of adaptation		.22 Uterine supports. Pessaries
758 1	Day blindness (hemeralopia)		.819.8 Abrasion, curettage of the uterus
2	Night blindness (nyctalopia)		.85 Hysterotomy. Incision of the uterus
76	Concomitant squint (strabismus concomitans) —612 846.8	146	Cervix uteri. Isthmus of the uterus. Cervical canal
761	Heterophoria. Esophoria, exophoria and hyperphoria	.15	Vagina
764	Accessory organs of the eye Ocular adnexa		618.15-008.8 Vaginal secretions Vaginal discharge. Leucorrhoea (the whites)
1	Orbital region		External female genitals. Vulva Mons pubis (mons veneris). Labiae. Clitoris
6	Extrinsic eye muscles and tendons. Squint (strabismus) in general Nystagmus.	.16	Female urethra
77	Asynergy. Uncoordinated eye movements —612 846.8	.164	Sexual life of the female. Functional disorders of the female genital organs
.78	Lacrimal apparatus	.17	618.17-008.11 Defloration. Loss of virginity. Rupture of hymen
	Lacrimal glands (tear glands)		.14 Frigidity. Sexual unresponsiveness in the female
	617 764 1-008.8 Tears. Shedding of tears		
	Weeping Crying.		
	Epiphora. Watering of eyes		
	Lacrimal sac		
	Eyelids. Palpebral region Hordeolum (stye)		
	Bony orbit		
618	GYNAECOLOGY. OBSTETRICS		
	—611.65, 612.6; 613.99		
	Special auxiliary subdivisions		

618.17-008 (cont'd)	618.17-008.8 Menstruation. Menstrual periods	618.4 (cont'd)	618.4-089.5 Anaesthesia. Analgesia
	-083 Sexual hygiene in the female.	.41	Genital organs during confinement
	Hygiene of the female sexual organs	.414.1	Uterine contractions
		.4	Labour pains
.172	Menarche. Onset of menstruation	.43	Infant during confinement
.173	Menopause. Cessation of menstruation.	.431	Intra-uterine foetal behaviour. Foetal sounds.
	Menopausal disorders		Crying, breathing, hiccup (hiccup).
.174	Menorrhagia. Excessively profuse menstruation. Metrorrhagia. Uterine bleeding other than normal menstruation	.432	Defaecation
		.437	Position of the foetus. Presentation of the foetus at birth
.175	Dysmenorrhoea. Painful menstruation. Period pains	.438	Descent. Intrapelvic rotation
		.439	Expulsion. Delivery
.176	Amenorrhoea. Absence of menstruation	.44	Viability. Stillbirths
.177	Sterility, infertility in the female		Foetal appendages during confinement and birth
	618.177-089.888.11 Artificial fertilization	.46	Placenta. Separation, expulsion of placenta.
.179	Fertility in the female		Afterbirth
.18	Perineum in the female	.47	Retraction. Retracted uterus
.19	Mammary glands. Breasts	.48	Umbilical cord
	618.19-002 Mastitis. Mammary inflammation	.5	Pathology of parturition. Pathology of labour. Dystocia. Difficult birth
	-006 Tumours of the breast. Breast cancer		618.5-085 Medically induced labour.
	-089.87 Mastectomy. Amputation of breast		Induction by drugs
.191	Mamillae. Nipples. Areolae		.82 Manipulatively induced labour. Induction by massage
	618.191-002 Theilitis. Mamillary inflammation		-089.888.14 Surgical induction of labour
.2	Obstetrics. Midwifery. Tocology. Pregnancy (gravidity). Physiology of pregnancy. Cyesisiology		.2 Expression of the foetus
	618.2-07 Diagnosis of pregnancy.		Manual extraction of the foetus
	Symptoms of pregnancy		.3 Use of obstetric forceps, lever
	—362.15		.4 Version of the foetus
	-082 Medical attendance on pregnant women		.5 Dismemberment of the foetus. Embryotomy
	-083 Care and hygiene of pregnant women	.51	.61 Caesarian section
.21	Genital organs in pregnancy		Uterine dystocia. Abnormalities of the female genital organs. Uterine inertia. Uterine and vaginal spasms etc.
.231	Duration of pregnancy	.52	Pelvic dystocia. Abnormalities of the female pelvis
.232	Position of the foetus. Presentation of the foetus at birth	.53	Foetal dystocia. Abnormalities of the foetus
.25	Multiple pregnancies. Twins etc.	.532	Abnormal presentation or position
.29	Characteristics of foetus at various stages of pregnancy, and of the infant at birth. Size, weight, sex etc.	.54	Adnexal dystocia. Abnormalities of the foetal appendages
.3	Pathology of pregnancy	.56	Placental dystocia. Abnormalities of afterbirth, placenta, separation, expulsion
	618.3-008.6 Secretory disorders in pregnancy. Toxaemia of pregnancy. Hepatotoxaemia	.58	Separation and delivery of the umbilical cord
		.6	Puerperium: physiology, hygiene.
	-06 Complications of pregnancy, e.g. vomiting (morning sickness)		Post-partum period. Involution of the genital organs. Lactation
.31	Extra-uterine pregnancy. Ectopic pregnancy, e.g. tubal pregnancy	.7	Pathology of the puerperium, post-partum period
.32	Pathology of the ovum and embryo		618.7-002 Puerperal fever (childbed fever)
	618.32 = 611-013	.71	Genital organs in puerperal disorders
.33	Pathology of the foetus	.73	Pathology of lactation
.333	Death and retention of the foetus		
.34	Pathology of the foetal appendages. Vitelline sac. Allantois. Chorion. Amnion	619	DISEASES OF DOMESTICATED ANIMALS. VETERINARY SCIENCE
.36	Placenta		<i>Under 619 is classed information about the diseases of domestic and useful animals. For diseases of other animals — 591.2</i>
.38	Umbilical cord		<i>Alternatively class veterinary science at 636.09</i>
.39	Premature and postmature birth. Miscarriage. Abortion		—614.9
	618.39-021.3 Spontaneous abortion		619:614.23 Veterinary practitioners
	-085 Medically induced abortion.		:616 Particular diseases of domestic animals generally
	Termination of pregnancy by drugs		:616.24 Pulmonary diseases of domestic animals generally
	-089.888.14 Surgically induced abortion. Operative termination of pregnancy		:636 Veterinary treatment of particular domestic animals
	—343.62		:636.1 Veterinary treatment of horses and other equines
	Childbirth. Delivery. Parturition. Physiology of labour. Eutocia. Natural birth		
	618.4-08 Supervision of labour		
	-089 Treatment during labour.		
	Preparation. Asepsis.		
	Antisepsis. Position for delivery		

62 ENGINEERING. TECHNOLOGY IN GENERAL

62-03 Materials in engineering		62-133.4	Machines with two or more rotors meshing like cogwheels
For subdivisions — Table I(k)-03			Machines with helical rotor, with helicoidal rotors
-05 Personal characteristics in engineering (operatives, users etc.)		.5	Machines with semi-rotary or oscillating rotor or vane
For subdivisions — Table I(k)-05		.6	Turbine motors and driven parts in general.
Special auxiliary subdivisions			Turbomachines according to number of blade-rings
The special auxiliaries -1/-9 listed here under 62 are applicable throughout 62/69 except where otherwise indicated.		-135	Turbomachines with single casing, with multiple casings
Other series of special auxiliaries, e.g. .0		-136	Centrifugal motors and driven parts in general
auxiliaries, which occur in individual sections, are applicable only where listed.		-137	Reciprocating machines (piston engines) according to mode of action of working fluids
The term 'machine' is used here for brevity to include any tools, equipment and installations, and their components.		-14	Single-acting machines
		-141	Double-acting machines
		-142	Uniflow machines
		-143	Machines driven by explosion, combustion, spontaneous high pressure
		-144	Compound machines. Machines with progressive effect. Action in series
		-146	Single stage
62-1	GENERAL CHARACTERISTICS OF MACHINES ETC.		Two or more stages
	-1 and its subdivisions are not applicable in 624 (except for -11 and -18), 627.8, 633/635, 66, 678 and 687		Machines with parallel effect. Action in parallel
-11	General design and construction characteristics. Configuration, layout, arrangement of main components	.1	Turbo machines according to mode of action of working fluids
-111	Machines according to working axis, alignment. Vertical. Horizontal. Inclined (oblique)	.2	Direct action (impulsion)
-112	Machines according to type of construction	-147	Reaction
.4	Simple construction, e.g. one-piece (monobloc)	-15	Combined impulsion and reaction
.5	Sectional construction. Built-up, multi-unit, composite, compound structures	-151	Axial admission
.6	Prefabricated construction. Assembly of unit parts, modules. Unit construction system	-152	Radial admission
-113	Machines with single action, operation, movement, function. Single-workpiece machine tools etc.	-153	Combined axial and radial admission
-114	Machines with multiple action, operation, movement, function. Multi-workpiece machine tools etc.	-154	Tangential admission
-115	Machines with variable function. Dual-purpose. Multi-purpose. All-purpose. Universal machines	-155	Full admission
-12	Reciprocating machines (piston engines) in general. Configuration, layout, arrangement of main components	-156	Partial admission
-121	Machines with one cylinder. Single-cylinder machines	-157	Use of Magnus effect. Flettner rotors
-122	Machines with parallel, in-line cylinders	-158.1	Machines according to use of working fluid, vapour, steam
-123	Machines with obliquely angled cylinders. V-arrangement	.2	With single-stage expansion
-124	Machines with axially aligned cylinders. End-to-end cylinder engines. Tandem engines etc.	.3	With multi-stage expansion in one cylinder
-127	Machines with parallel cylinders circularly arranged about a shaft, with oblique circular plate. Swashplate machines	.4	With multi-stage expansion in more than one cylinder
-128	Machines with rotating cylinders	-161	With two-stage expansion
-129 1	Machines with oscillating cylinders	-162	With three-stage expansion
2	Machines with coupled cylinders and two pistons	-163	With four-stage expansion
3	Machines with one cylinder and two pistons	-164	Back-pressure. Measurement, control, variation of clearance space
5	Machines with auxiliary pistons	-169	With condensation (condensing engines)
6	Machines with stepped pistons (differential pistons)	-171	With free exhaust or mechanical extraction
82	Machines with T-head arrangement. Side valves on both sides of cylinder	-172	With intermediate extraction, bleeding, of working fluid. Exhaust recuperation
83	Machines with I-head arrangement. Overhead valves	-173	With heated, re-heated or superheated fluid
-13	Rotary machines in general. Configuration, layout, arrangement of main components	-174.1	With high-pressure steam
-133	Machines with rotary, semi-rotary or pendulum motion, or with rotation-like action	.2	With low-pressure steam
2	Machines with simple rotor. Rotary piston machines with uniform rotation	-175	With mixed working fluids, e.g. steam and water
3	Rotary piston machines with variable rotation. Intermittent and variable-speed rotary piston machines	-176	With vapour other than steam, e.g. mercury vapour
		-18	Machines according to dimensions, mobility, weight, speed, precision
		-181	According to dimensions, size
		12	Length. Breadth (width)
		13	Height
		.2	Large. Giant
		.4	Small. Dwarf. Miniature. Microminiature
		-182	According to mobility, interchangeability, convertibility
		1	Fixed. Integral parts of building or structure
		2	Integral lifting apparatus, fixed containers etc.
		3	Stationary. Immobile (without being integral). Built-in
		.4	Mobile. Movable. Transportable. Sliding, rolling, wheeled, tracked etc.
		.5	Portable. Hand-carried
			Swivelling

62-182.6	Foldable. Collapsible. Dismantlable. Stackable —62-771	62-225.5	Acceleration nozzles
.7	With adjustable, movable parts. Unit-built and convertible equipment. Adaptable devices	.6	Idling, slow-running nozzles
.8	Removable. Detachable. Replaceable. Interchangeable	.8	Nozzle design, construction 62-225.8 ≈ 621.643
-183	According to weight	-226	Guide rings, blades, vanes of turbomachines and similar machines
.2	Heavy	.1	Guide rings. Stators
.4	Light	.3	Guide blades, vanes —62-253.5
-185	According to speed. Speed of rotation in general. Speed of processes —66-94	.4	Reversing blades
.3	Slow. Low-speed	-229	Tool and workpiece carriers, holders. Feed mechanisms. Emptying devices
.4	Fast. Rapid. High-speed	.2	Tool holders, supports. Rests. Tool chucks etc.
.7	Critical speed of rotation	.3	Workpiece holders, supports. Clamps. Jigs etc.
-187	According to degree of precision, accuracy	.31	Clamping, gripping devices. Positioning, centering, locating devices. Vices. Work tables
.2	Low precision	.311	Work tables with T-slots, fixing holes, built-in clamps
.3	Medium precision	.312	Various clamping devices. Fixing screws, bolts. Clamp plates. Vices
.4	High precision	.315	Magnetic clamping devices (permanent magnet or electromagnet). Vacuum or suction clamping devices
-189.2	Dosing. Metering. Metered quantities	.316	Devices for adjustment, alignment. Positioning, centering, locating devices
62-2	FIXED AND MOVABLE PARTS, COMPONENTS OF MACHINES -2 and its subdivisions are not applicable in 634/635	.32	Workpiece mountings and clamping devices primarily for rotating workpieces. Faceplates. Collets. Workpiece chucks etc.
-21	Fixed parts in general. Enclosures. Housings. Casings. Frames. Mountings. Supports —62-758	.324	Mandrels
-213	Machine enclosure or housing generally: none, partial, complete —62-762	.33	Headstocks. Tailstocks. Centres
.1	Open	.34	Dogs. Driving plates. Catches. Ratchet dogs
.2	Partially enclosed. Drip-proof. Splash-proof. Spray- proof. Water-jet-proof. Weatherproof	.35	Steady rests, back stays for workpieces
.3	Closed. Wholly, totally enclosed	.36	Rivet-sets. Rivet-snaps. Riveting dies. Cup-sets. Dollies. Bucking bars
.32	Watertight. Immersible. Submersible	.37	Anvils
.34	Gastight. Airtight. Flameproof. Explosion-proof	.38	Actuating devices and drives for clamping, other than those integral with the clamping device. Clamping spanners, keys, ratchets, lever assemblies. Electric, hydraulic, pneumatic pressure clamps
.6	Machines in casings resistant to internal and external pressure	.4	Supports and mountings for particular objects. Stands. Frames. Horses. Trestles
-216	Elements of housings, frames, mountings	.6	Feed mechanisms. Automatic magazines
.5	Beds	.7	Devices for removing and transporting objects between successive operations. Transfer and handling devices within the machine. Turning, folding devices etc.
.6	Posts. Columns. Pillars	.8	Discharging, unloading, emptying devices. Waste removal devices
.7	Cross-members. Traverses. Arms. Jibs. Brackets etc.	-23	Mechanical power transmission elements. Fastening, fixing devices —62-88; 621.8
.8	Tables. Plates. Trays etc.	-231	Construction of transmission mechanisms Linear systems. Kinematic pairs
-217	Bedplates. Baseplates. Foundation plates. Soleplates	.2	Linked mechanisms. Motive trains. Four-bar chains (quadric cycle). Slider-crank mechanisms. Wedge chains. Multi-link chains
-218	Fixed foundations. Mountings	.3	Elements of reciprocating transmission mechanisms
.2	Masonry foundations, of brick, concrete etc., for mounting of machines	-232	Connecting rods. Coupling rods
.3	Suspension from vertical surface, e.g. wall mountings	.1	Cranks. Crank discs. Return cranks
.4	Suspension from horizontal surface, e.g. ceiling mountings. Overhead mountings	.2	Parallel (pantograph) mechanisms
.8	Fasteners. Attachments 62-218.8 ≈ 621.88	.3	Elements of rotary transmission mechanisms Axles. Shafts. Crankshafts. Camshafts.
-219	Adjustable or movable support or bearing arrangements for adjustable parts	-233	Spindles. Pivots. Knife-edges. Fulcrums —621.824
.1	Platforms. Bearing-plates. Restplates	.1	Bearings. Bushings —621.822
.2	Slides. Slideways	.2	Gearing. Gears. Friction drives. Slideways 62-233.3/.9 ≈ 621.833/.839, e.g.
.3	Support columns, pillars, posts. Props. Tripods etc.	.3	62-233.3 Toothed wheels. Toothed gears. Tooth profiles (from 621.833)
.4	Movable brackets. Cantilevers. Balance arms. Counterpoises	.1	.52 Cams (from 621.835.2)
.51	Rigid suspensions		
.52	Non-rigid, flexible suspensions. On ropes, cables, chains etc.		
.527	Electromagnetic suspension		
-22	Fixed parts associated with moving elements		
-222	Cylinders		
-224	Cylinder heads. Combustion and precombustion chambers. Manifolds		
-225	Ducts. Nozzles. Jets		
.1	Inlet and outlet ducts, ports, nozzles		
.2	Throttling nozzles. Chokes		
.3	Adjustable nozzles		
.4	Flow-reversing nozzles		

62-233.3/9 (cont'd)	.6 Slide-bar transmissions. Link transmissions (from 621.836)	62-343 -344	Motions with cams Motions with variable stroke, with feed or flow regulation
	.7 Devices with eccentrics, inclined planes, wedges, cranks (from 621.837)	-347 -35 -37	Electrically actuated motions Actuators for slide valve gear Actuators for rotary valve gear
	.8 Ratchet-and-pawl mechanisms (from 621.838)	-38 -396	Actuators for lift valve gear. Flap control gear Devices for positive closure of pipelines 62-396 $\approx$ 621.646
	.9 Friction drives (from 621.839)	-397	Sprinkling devices. Flushing devices 62-397 $\approx$ 621.647
-234	Components for converting rectilinear to rotary motion, e.g. Z-axes, swashplates For crankshafts — 62-233.1	-398	Various draining and overflow devices 62-398 $\approx$ 621.648
-235	Flexible drives and transmissions 62-235 $\approx$ 621.85	62-4	STATE, CONDITION, FORM OF MATERIALS, SURFACES, OBJECTS, PRODUCTS -4 and its subdivisions are not applicable in 621.4, 629.1 and 625
-237	Cranes and hoists as machine components 62-237 $\approx$ 621.87		State of aggregation of materials —54-1
-238	Fastening, fixing, securing devices. Devices for limiting movement 62-238 $\approx$ 621.88	-403/-405	Gaseous state (including solids and liquids in gaseous state) Rarefied Compressed
-24	Elements with reciprocating motion generally	-403	Liquid state. Liquefied state Mobile (low viscosity) Viscous
-242	Pistons		In solution Colloidal state with liquid continuous phase. Suspensions. Emulsions. Sols. Gels. Foams
.2	Piston body	.2	Semi-colloidal state (coarse suspensions). Pastes. Mashs. Doughs. Sticky...
.3	Piston rings —62-762.6	.3 -404	Solid state. Solidified state Use only if needed to emphasize contrast with gaseous and liquid states
.4	Piston rods	.1	Loose solids. Pourable. Tippable. Particulate. Bulk material —62-492.2/3
-25	Rotary elements generally	.2	Porous. Cellular. Sponge-like Surface condition of objects —621.7.015; 621.9.01
-251	Rotary pistons	.5	Covered. Coated Plated. Lined. Clad
-252	Drums (cylindrical, conical etc.). Hubs	.8	Wrapped. Wound Surface shape, form Plane. Flat Curved
-253	Rotors. Runners. Discs	.9	Irregular Smooth
.5	Impeller blades. Vanes. Paddles. Buckets		Rough. Grained. Textured. Ribbed. Knurled. Grooved. Scored. Corrugated
.6	Screws. Propellers. Propeller blades	-405	Flat objects. Blocks. Slabs. Plate. Sheet. Strip etc.
-254	Wheels		Crude forms, for further processing In metalworking: ingots, slabs, billets, bars, blanks In timber, woodworking. logs
.6	Wheel elements. Rims. Hubs. Spokes etc. 62-254.6 $\approx$ 629.11.012.6	.6	Thick plate and sheet (4.75 mm and above). Heavy plate. Armour plate. Thick board. Planks etc.
-26	Rigid oscillating elements		Medium-thick plate and sheet (3 mm to <4.7 mm) Thin plate and sheet (0.5 mm to < 3 mm). Cardboard, woven sheets, webs etc.
-27	Elastic oscillating elements. Flexible moving parts	.8	Very thin flat objects (less than 0.5 mm) Very thin sheet, paper, foil, veneers etc.
-272	Springs	-408	Uneven flat objects. Corrugated plate and sheet etc.
.2	Coil springs. Helical, spiral, cylindrical, conical springs	.2	Strip. Band. Ribbon. Tape
.3	Leaf springs. Plate springs	.3	Multi-layer plate or strip. Compound, reinforced, layered sheet. Sandwich construction. Plywood, laminates etc.
.41	Disc springs	.4	Double, duplex, two-layer (without adhesive). Bimetallic strip etc.
.43	Ring springs	.6	Reinforced with textiles, fabrics, fibres etc.
5	Bar springs. Torsion springs	.62	Profiled objects. Sectional material
6	Rubber springs	.64	Solid sections. Rounds. Half-rounds.
.8	Pneumatic and hydraulic springs	.66	Quadrant strip Square, polygonal section etc.
-278	Diaphragms. Elastic membranes	.7	Dowel rod. Rods. Posts etc.
62-3	FLUID CONTROL PARTS AND DRIVES. VALVES, CLOSURES ETC. -3 and its subdivisions are not applicable in 626, 661.185, 662.2 and 681.6	.8	Sections with shaped profiles. Angle sections. I, H, L, V, S, T, U, Z sections etc.
-31	Fluid control parts with reciprocating motion. Slide valves	-41	
-312	Slide valves with invariable expansion	-412	
-313	Distributing slide valves with expansion slide valves	-413	
-314	Reciprocating cylindrical valves (sleeve valves). Piston valves etc	-414	
-315	Annular slide valves, for turbines	-415	
-32	Fluid control parts with rotary motion. Rotary valves	-416	
-33	Fluid control parts with lifting motion. Lift valves. Drop, flap valves etc	-417	
-331	Inlet valves	-418	
-332	Exhaust valves	-419	
-333 1	Valves with flat seat. Disc valves		
2	Valves with conical seat. Poppet valves		
-334	Balanced valves (pressure-compensated valves). Ring valves	.4	
-335	Clack valves. Flap valves. Hinged valves (with or without spring)	.8	
-336	Valve seats. Valve boxes	-42	
-34/-38	Regulating mechanisms for fluid control parts. Valve gears and actuators	-422	
-34	Valve gears and actuators generally. Motions generally, irrespective of particular type of valve	-423	
-341	Motions with cranks, eccentrics, drag-links		
-342	Motions with gearwheels, cogwheels		

62-424	Sections with rail-type profile —625.143	62-522	Fluidically, hydraulically, pneumatically controlled machines etc.
-426	Single wires, threads, filaments. Unifilar —677-486	.2	Hydraulically controlled (except electrohydraulically) —62-82
-427	Objects compounded of wires, threads, filaments. Multifilar. Ropes, cables, yarns, cords. Braids. Nets. Mesh sleeves etc. —677-487	.7	Pneumatically controlled —62-85
-428	Helical, spiral, twisted objects. Screw-shaped objects	-523	Electrically controlled machines etc. —62-83
-431	Short prismatic objects. Building blocks, bricks, briquettes, tiles etc.	.2	Electromagnetically controlled.
-434	Short cylindrical and conical objects	.3	Electrodynamically controlled
.1	Cylindrical objects	.6	Electrohydraulically controlled
.5	Conical objects	.8	Electrothermally controlled
-436	Spherical and spheroidal objects. Balls. Beads. Capsules. Ovoids etc.	-524	Electronically controlled
-437	Streamlined objects	-526	Thermally controlled machines etc. (except electrothermally)
-44	Shaped mouldings, including serrated mouldings. Mitres. Dovetails	-527	Servo-controlled machines etc.
-45	Slotted, grooved, rabbetted (rebated), splined objects	-53	Machines etc. acting at periodic intervals. Time controls —62-558
-46	Hollow objects. Material of hollow section	-531	Devices for positional, dimensional regulation (setting) etc.
-461	Open hollow sections. Concave sections. Open channels, gutters etc.		Regulation of mechanical quantities.
-462	Closed hollow sections. Pipes. Tubes. Hoses etc.		Regulation of lengths, surfaces, volumes, angles, masses. Regulation of velocities, acceleration, oscillation, pressures, forces, output, energy
.2	Seamed piping etc.	-533	Regulation of physical quantities. Regulation of acoustic quantities, sound, tone, noise.
.3	Seamless piping etc.		Regulation of optical quantities, light, colour.
-463	Closed hollow objects of irregular cross-section		Regulation of thermal quantities, heat, temperature. Regulation of electrical and magnetic quantities
-464	Spherical hollow objects. Globes. Balloons etc.	-539	Precision regulation, adjustment (mechanical)
-465	Hemispherical, cylindrical and similar open hollow objects. Crucibles. Beakers. Pots. Bottles. Barrels etc.	-54	Methods of control. Elements connecting controller to point of control in general
-47	Perforated and annular objects	-541	Control by mechanical action in general
-472	Objects with holes, punched, drilled, bored. Perforated objects. Sieves of perforated plate etc.	-543	Control by influencing the working fluid or fluid displaced
-477	Annular objects. Rings	.2	Throttling of working fluid. Pressure reduction. Throttle control
-478	Objects with cavities for weight reduction, air circulation etc. Hollow bricks etc.	.3	Control of quantity of working fluid admitted.
-48	Forms and make-up of fibrous materials and products 62-48 = 677-48	.7	Feed control
-492.2	Pulverous material. Powders. Dusts	-544	Control by nozzle with adjustable needle-valve, float spindle
.3	Granular material. Grains. Granules. Shot. Grit —62-405.6	-545	All-or-nothing control in general. On-off control
-493	Small objects of irregular form. Splinters. Shavings. Chips. Flakes etc.	-546	Various control methods, especially for reciprocating machines (piston engines)
-494	Objects made of irregular fibres. Felt products etc.	-55	Various control methods, especially for turbomachines
62-5	OPERATION AND CONTROL OF MACHINES AND PROCESSES —621.3.07; 621.316.7; 681.5	-551.2	Controllers. Regulators. Governors
-51	General operation and control of machines and processes. Manual control. Remote control	.3	Devices for transmission of controller movement
-514	Manual control. Hand controls. Foot controls	.4	Two-point controllers in general
.1	Hand controls in general. Control handles	-552	Constant, continuous controllers in general
.3	Foot controls. Pedals etc.	-553	Centrifugal controllers. Centrifugal governors
.4	Crankhandles	-555	Controllers actuated by mechanical action, e.g. by change of position, by pressure change
.5	Steering controls. Handlebars. Steering wheels. Steering bars, rods etc.	-556	Controllers actuated by physical phenomena, e.g. by radiations, by light, by heat
-515	Various control devices, particularly for vehicles	-558	Controllers actuated by chemical phenomena
.5	Actuated by movement of seats or footboards	-559.3	Devices controlling the time and duration of operations —62-527
.7	Actuated independently of driver by a passenger, guard, instructor etc.	.8	Indirect controllers for variable running
-519	Remote control. Remote steering	-56	Safety regulators
-52	Automatically operated or controlled machines and processes —681.52/.53	-562	Control of movement by direct action.
-521	Mechanically controlled machines etc. —62-86	-567	Control by inertia, by buffering.
		-57	Compensation of movement
		-571	Flywheels
		-572	Shock-absorbing devices. Shock absorbers. Buffers
			Starting. Coupling. Engaging
			Mechanical starting. Mechanical starting devices. Starting handles, levers, cranks etc.
			Hydraulic starting

62-573	Electric starting. Electrostatic, electrodynamic, electromagnetic, electrothermal starting devices —621.316.71	62-6	MACHINES ACCORDING TO FUELS, HEAT SOURCES —6 and its subdivisions are not applicable in 681.6 —62-8; 662.6/.9
-574	Starting by means of heat processes. Thermal starting (except electrothermal)	-62	Gaseous fuels
-575	Pneumatic starting	-63	Liquid and fusible solid fuels
-576	Starting by means of servomotor	-631	Light, volatile liquid fuels
-577	Periodic activation. Preset time control, e.g. by clockwork timer	-634	Heavy liquid and fusible solid fuels
-578	Engaging devices. Couplings. Clutches 62-578 ≈ 621.838 —621.825	-64	Liquid fuels combined with air and water vapour
-58	Control of motion, of running. Acceleration. Deceleration. Reversing. Gears	-65	Electric heating
-581	Reversal of direction of motion. Reversing	-66	Solid fuels —536.66; 662.614.2 ⁴
-585	Devices for altering speed or transmission ratio. Gears	-663	Rich solid fuels, with high calorific value
.1	Alteration of speed by mechanical means. Mechanically variable transmissions. Speed-change gearboxes etc.	-664	Poor solid fuels, with low calorific value
.2	Alteration of speed by hydraulic means. Torque converters etc.	-665	Low-grade solid fuels
.3	Alteration of speed by electric or magnetic devices	-666	Solid fuels according to residue content: ash slag, clinker
.5	Alteration of speed by pneumatic means, compressed air or vacuum devices	-667	Solid fuels according to smoke production
.7	Speed limiting devices (preventing exceeding of given speed)	-68	Fuel substitutes. Recuperated energy. Secondary, residual heat, pressure etc. —662.99
.8	Alteration of speed of vehicles, locomotive devices	-69	Heating mechanisms and controls 62-69 ≈ 662.9
.82	Freewheeling devices on bicycles and motorcycles	62-7	SERVICING, MAINTENANCE, PROTECTION OF MACHINES
.86	Devices for transmitting steering-wheel movement to driving wheels of vehicles	-71	Cooling devices and arrangements
.9	Transmission gearing. Step-up gears. Reduction gears	-711	Natural cooling
-586	Various other devices for increasing speed. Friction reduction; reduction of drag, air resistance; alteration of displacement etc. —62-437	-712	Forced cooling by air or gas draught. Cooling ducts, fans etc.
-587	Differential gears	-713	Cooling by circulation of liquids. Cooling with water, oil etc.
-588	Idling devices. Light running. Running with no load. Running in neutral	-714	Recooling devices for coolants. Radiators, heat exchangers, coolers etc.
-589	Tool and workpiece movement, direction etc. Feed and guide control. Jigs etc.	-715	Cleaning and other treatment of coolant
.2	Multi-directional movement of tool	-716	Chemical additives against freezing. Antifreeze —624.143.8
.3	Movement of workpiece	-717	Cooling by evaporation of liquids
.4	Special movements. Pilgrim step (reciprocating roller) devices etc.	-719	Cooling by water injection
.6	Guiding devices. Templates etc.	-72	Devices for cooling workpieces during machining
.7	Stops (checks) Counterstops	-72	Lubrication devices. Oiling Greasing —621.89
.8	Dividing devices. Indexing heads	-722	Lubricant distribution systems. Central lubrication
-59	Deceleration, retarding, stopping devices	-725	Lubricant reservoirs, cups, boxes
-592	Brakes. Braking methods 62-592-52 Automatic, self-acting brakes	-726	Force-feed, pressure lubricators. Manually operated: Stauffer lubricators
1	Mechanical brakes	-728	Lubricating pumps 62-72 ≈ 621.6
11	Simple mechanical brakes. Block, drag-shoe, wedge, skid, air-vane, cone, disc brakes	-73	Cleaning, purification, filtering devices for working fluids: fuels, air, water etc.
12	Direct-acting brakes. Brakes acting on tyres, rims, axles, shafts, rails	-74	Disposition, location according to degree of protection. Emplacements. Installations
13	Indirect brakes, acting on brake drum	-742	In the open air. Outdoor installations
15	Servo-brakes	-743	Sheltered installations
16	Bicycle brakes	-744	Indoor installations
2	Hydraulic brakes	-747	Exposed to particular weather, atmospheric conditions: heat, cold, damp etc.
3	Electric and electromagnetic brakes	-75	Deformation of machines. Protective devices
5	Pneumatic brakes (air brakes)	-752	Devices for attenuating shock, vibration, oscillation. Dampers. Shock-absorbers.
.51	Vacuum brakes	-753	Devices for stabilizing, compensating. Stabilizers
52	Compressed-air brakes	-754	Devices for compensating for expansion, tension, flexure, bending, torsional stress
-593	Energy recuperation brakes (regenerative brakes) 62-593 ≈ 62-592	-755	Deformation due to wind, temperature change, frost, snow
-594	Brakes with shock-absorbing devices	-756	Effect of axial forces. Devices for compensating for axial forces
-596	Automatic stopping, cut-off devices, e.g. in case of machine failure, accident. Dead man's handle etc.	.4	Counterbalancing, counterpoising of moving masses
-597	Individual brake components. Brake shoes. Brakeheads. Brake linings	.6	Deformation and failure due to overloading of machine
			Devices for preventing excessive speed, racing of engine
			Deformation by explosion, implosion

62-756.8	Devices for protection against tool breakage, fracture	62-78	Protective devices and measures for personnel and public
.9	Safety devices against explosions, implosions	—614.8	
-757	Protection from damage by foreign bodies. Devices for deflecting or expelling foreign bodies	-781.2	Installation of rescue, life-saving equipment. Installation of parachutes, fall-breaking gear etc.
.2	Stone deflectors, e.g. rail guards	-783	Devices for prevention of industrial accidents. Safety devices
.3	Snow shields. Snow guards	—654	
	—624.144.5	.1	Alarms. Alarm signals
.4	Ice shields. Ice guards. De-icing, defrosting devices	.2	Danger signals. Warning devices
	—629.124.791.2	.3	Devices for protection against accidental contact with moving parts, or rendering harmless if touched. Safety barriers, guards, cages etc.
.5	Protection of vehicles and craft against mines, torpedoes, shells, shot	.4	Devices for preventing falls. Safety railings, grilles. Handrails. Devices for preventing slipping, overbalancing
	—623.93	.5	Measures affecting the running of machines
.7	Protection from, and removal of, animal and vegetable accretions, growths, encrustations		Prevention of accidental starting, acceleration. Automatic stopping
.8	Ejection of broken tools, fragments	.52	Automatic braking devices
-758	Boxes, cases, screens and similar protective devices	—62-592-52	
	—62-21	.61	Devices for prevention of catching, trapping of operative by moving tools
.1	Boxes, cases, containers in general	.62	Devices for prevention of recoil, rebound of workpiece
.2	Protection against mechanical action	.63	Devices for prevention of injury from flying fragments, workpieces, tools. Safety screens, shields, hoods etc.
.3	Protection against physical and chemical action	.64	Devices for prevention of flinging out of tools from machines
.31	Dustproof containers	.65	Devices ensuring safe insertion of tool into machine
.32	Watertight containers	.67	Devices ensuring safe insertion of workpiece into machine
.33	Gastight containers	.68	Devices for locking together units in compound machines
.34	Sound-proof containers. Containers damping, attenuating sound waves	-784	Devices for prevention of sickness, illness, disease. Health and hygiene installations
.35	Containers resistant to radiations. Light-proof containers etc.	.1	Protection against weather. Hoods, umbrellas, windshields etc.
.36	Thermally insulated containers. Heat-proof and fire-resistant containers	—614.89	
.37	Electrically insulated containers. Protection against electrical action, atmospheric electricity etc.	.2	Protection against atmospheric contamination, pollution. Ventilating devices, replacement of air, provision of fresh air. Removal of combustion products, exhaust, noxious gases
.38	Protection against magnetism. Antimagnetic containers	—628.512; 628.8; 699.87	
.39	Containers protecting from chemical action	.3	Protection against physical influences
-759.8	Theft-prevention devices. Thief-resistant, burglar-proof, security devices	62-784.3 ≈ 53	
	—654.924.3	.4	Control of dust, airborne particles. Dust extractors. Air filtering etc.
-76	Protection of individual parts of machines	—628.511 and references there	
-761	Protective coverings which also serve other purposes. Protective coatings, varnishes etc.	.5	Location of operator's post outside danger area. Working chambers, cabins, booths etc.
	62-761 ≈ 620.193	.7	Protection from radiation and radiant heat. Water curtains on smelting furnaces etc.
-762	Fluid-tight, pressure-tight joints, connections. Protective jointings. Packings. Glands. Seals	—614.898	
	<i>Denote sealants, packing materials by colon combination</i>	-787	Means and devices for maintaining visibility. Location for ease of observation. Ensuring clarity of glass, screens etc. Demisting. Windscreen wipers
.4	Pressure-tight joints on stationary machine parts. Gaskets. Sealants. Jointing compounds	—62-776	
.6	Pressure-tight joints on moving machine parts	-788	Special safety devices for vehicles and craft. Devices for prevention of overturning, capsizing, foundering. Protection in collisions. Fenders. Bumpers etc.
	<i>Denote kind of movement by colon combination, e.g. with 62-24/-27</i>	-79	Measuring devices. Counting, totalizing devices. Separating, sorting devices
-763	Dirt traps. Mudguards, hub-caps etc. Dust extractors	62-8	MACHINES ACCORDING TO MOTIVE POWER, PROPULSIVE FORCE. SOURCE OF ENERGY OF MACHINE
-764	Protectors for transmission chains. Chain cases. Chain guards. Chain cleaners	—62-52; 62-6	
-768	Protection against particular physical phenomena. Spark guards etc.	-81	Steam-driven
-77	Various devices for facilitating erecting, assembly, maintenance, cleaning, repair etc.	62-81 ≈ 621.16	
-771	Devices for facilitating erecting, assembly, dismantling. Demountable devices	-82	Hydraulically driven
	—62-182.6	-824	By water turbine
-772	Individual parts, components, units	-827	By tidal energy
-774	Devices for rendering parts accessible for cleaning, repairs, etc.		
-776	Cleaning devices. Brushes, scrapers, wipers etc. Waste-water removal		
	—62-787		
-777	Identification devices. Markings, e.g. lettering, symbols, pictograms. Distinctive shape, colour etc.		
	Identification by colour. Colour-coding		

62-828	By water wave energy	620.113	Basis of sampling. Errors in selection.
-83	Electrically driven		Sampling processes
-831	With current collection from conductors		—519.24
-833	With generators powered by internal combustion engines	.115	Apparatus for preparation of specimens, test pieces
	62-833 $\approx$ 62-843, e.g.	.2	Sampling apparatus
	62-833.6 Diesel-electric-powered	.5	Apparatus and machines for production of specimens
-835	With accumulators, cells, batteries	.8	Shape of specimens. Measurements of specimens. Gauge lengths
-837	By electromagnetic induction		Storing, preservation of specimens
-84	Driven by combustion engine	.118	Tests of suitability for service
-841	By aerothermal engine (hot-air engine)	.16	Technology tests simulating conditions to which the specimen will be submitted in service. Pressure tests etc.
-843	By internal combustion engine	.162	Technology tests not producing numerical values. Testing of regularity and uniformity of products, e.g. fibres
.3	By gas engine		—620.179
.4	By distillate-fuel engine (petrol engine)	.163	Pouring, casting tests. Consistency.
.6	By diesel or semi-diesel engine		Spreadability. Fluidity
.8	By gas turbine		Forging, shaping tests. Flattening, hammering tests. Malleability tests
-85	Pneumatic, air-driven, wind-driven	.1	Bending tests. Folding tests. Wrapping, winding tests
-851	By compressed-air motors. By rarefied-air motors	.2	Crush resistance, friability tests. Brittleness, fragility, shock resistance tests.
-852	By direct action of air on driven part	.3	Fragmentation tests (shatter tests). Grinding, milling tests
-854	By wind turbines, e.g. windmills	.4	Spark tests
-86	Mechanically powered. Spring-powered (clockwork) etc.	.6	Tests of hollow bodies
-867	By impact, shock energy	.165	Open containers
-868	By vibrational energy	.1	Closed containers. Tightness, leakage, seepage tests etc.
	62-868.6/.8 $\approx$ 534-6/-8	.2	Package testing (boxes, jars, cans etc.), e.g. tumbling, drop tests
-87	Driven by muscular effort. Human-powered, animal-powered	.7	Testing of samples of composite materials
-871	By hand, arm. Manual devices	.168	Determination of number of constituents
-872	By tractive effort, pulling, hauling	.2	Testing of individual constituent characteristics of composite materials.
.7	By human traction (man-hauling)	.3	Separation. Sieving, screening, centrifuging, filtration etc.
.8	By animal traction. By draught animals	.4	Determination of admixtures by non-chemical methods
-877	Semi-mechanically driven. Semi-manual devices	.169.1	Endurance, durability tests in general
-88	Various methods of coupling, linkage	.2	Accelerated tests in general
	—62-23		—620.199
-881	Indirect drive (indirect transmission)	.17	Measurement of mechanical properties of materials. Strength tests
-882	Direct drive (direct transmission) but with separate motor	.171.3	—67.017
-883	Driven machine integral with motor. Structure, assembly of unit		Influence of external conditions, environmental effects. Length, duration, speed of test. Temperature. Humidity
-886	Individual drive (single drive)	.5	Photoelastic tests
-887	Group drive (coupled drive). Multiple coupling		620.171.5:535.51 Testing with polarized light
-89	Use of machine as motor	.172	Tensile tests under steady or gradually increasing load
-892	Parallel-coupled	.2	Determination of test values and material characteristics
-894	Series-coupled	.21	Measurement of load and stress
62-9	PROCESS AND PLANT OPERATING CHARACTERISTICS	.22	Determination of deformation work
	62-9 $\approx$ 66-9	.23	Determination of elongation Elastic limit.
	-9 and its subdivisions are not applicable in 656.833 and 678	.24	Yield point. Proportional limit. Modulus of elasticity
Principal divisions		.25	Determination of shrinkage, contraction, necking
620	MATERIALS TESTING. COMMERCIAL MATERIALS. POWER STATIONS. ECONOMICS OF ENERGY	.254	Determination of breaking load, breaking strength. Cross-section at failure.
620 1	MATERIALS TESTING. DEFECTS OF MATERIALS. PROTECTION OF MATERIALS	.253	Phenomena of fracture
	—539 3/.5, 543	.254	Tensile testing under particular conditions
Special auxiliary subdivisions			—620.171.3
620 1 05	Testing machines and apparatus	.251.1	At low temperatures. In cold
051	Universal testing machines	.2	At high temperatures. In heat. Creep tests for metals (depending on time)
052	Load capabilities and characteristics of testing machines	.253	Tensile testing by centrifugal force
058	Fixing and holding devices Grips, clamps, jigs etc	.254	High-speed tensile tests. Impact tensile tests
	—62-229.3		—620.178.7
.08	General principles and theory of measurement and the design of measuring apparatus Measurement methods		
	620.1.08 $\approx$ 53.08		
Principal divisions			
620 11	Preliminary examination of materials. Sampling. Test pieces		
111	Preliminary examination. Visual inspection, e.g. by naked eye		

620.173	Testing of compressive strength, with static or gradually increasing load. Compression, crushing tests. Buckling tests	620.178.32	Kinds of repeated dynamic stress test. Alternating stress tests, e.g. tension-compression (push-pull tests)
.2	Determination of test values and material characteristics	.35	Repeated impact tests
	620.173.21/.25 $\approx$ 620.172.21/.25, e.g.	.37	Fatigue tests at low temperatures
	620.173.22 Determination of shortening, compression, crushing limit	.38	Fatigue tests at various temperatures
	.23 Determination of bulging	.4	Tests under various multiple kinds of stress, similar to those occurring in service. E.g. friction testing of rubber with simultaneous stressing by pressure in oblique plane. Determination of weak spots
	.24 Determination of breaking load	.5	Testing for failure of vibrating parts. Testing for resistance to effects of vibration. Stroboscopic, sonoscopic, oscillographic tests. Shaking, jarring tests
	.25 Compression testing under particular conditions		—620.178.3
.26	Buckling tests. Crippling tests	.6	Tests under various kinds of stress similar to those occurring in working of materials. Testing for resistance to deformation etc
.174	Bending strength tests, with static or gradually increasing load. Flexure testing	.7	Testing with impact load (percussion load). Drop tests. Falling weight tests. Impact tearing tests. Impact compression tests, e.g. by explosion. Impact bending tests, e.g. Charpy, Izod. Impact torsion tests. Impact shearing, punching tests
	—620.177		—620.172.254
.2	Determination of test values and material characteristics	.179	Non-destructive testing Other kinds of test
	620.175.21/.25 $\approx$ 620.172.21/.25, e.g.	.1	Non-destructive testing. Flaw detection
	620.174.22 Determination of deflection, elastic limit, modulus of elasticity	.11	Surface tests
	.24 Determination of breaking load	.12	Mechanical testing
.175	Testing of torsional strength, with static or gradually increasing load. Torsion, twisting, rigidity tests	.13	Thermal testing
.2	Determination of test values and material characteristics	.14	Magnetic testing
	620.175.21/.25 $\approx$ 620.172.21/.25, e.g.		—621.317.49
	620.175.22 Determination of torsion, elastic limit, modulus of rigidity	.15	Radiological testing
.6	Determination of number of twists	.152	Irradiation with Roentgen rays (X-rays), with gamma radiation. Industrial radiography
.176	Shear strength testing, with static or gradually increasing load. Shear tests. Punching tests		—620.183.6; 621.039.8; 621.386 and refs there
.2	Single and double shear. Shear resistance. Tearing tests	.16	Ultrasonic testing
.251	Shear tests at various temperatures	.2	Weldability testing. Testing for welding characteristics, safety
	620.176.251 $\approx$ 620.172.251	.3	Hardenability testing
.3	Punching tests with gradual loading	.4	Adhesion testing
.5	Stamping tests	.5	Machinability, workability testing Cutting tenacity, tool endurance tests
.177	Folding and bend tests. Doubling tests. Seaming tests	.7	Dimensional stability testing
	—620.163.3; 620.174	.18	Investigation of structure of materials. Metallography. Analogous study of non-metals
.6	Flexibility testing. To-and-fro, reverse bending tests		—539; 541.1; 548
.178	Hardness testing. Wear testing. Brittleness testing	.181	Investigation of phase changes by thermal and other physical methods
	—620.163.4	.4	Investigation during cooling and heating. Thermal analysis
.1	Hardness testing. Wear testing	.5	Investigation at constant temperature. Isothermal changes
.14	Scratch hardness testing	.182	Production of sections. Macroscopic and microscopic methods
.15	Determination of hardness by impression with balls, cones, pyramids, cylinders, prisms	.183	Revealing the structure
.151	Generalities. Dimensions, shape, deformation of indenter	.1	By relief polishing
.152	Impression methods. Indentation testing	.2	By etching
.2	Ball indentation tests, e.g. Brinell	.4	By printing methods. Autoradiographic methods
.3	Cone and pyramid indentation tests, e.g. Vickers	.6	Microradiography
.4	Hardness testing with initial loading, e.g. Rockwell	.184	Macroscopic examination. Fractography
.153	Impact hardness tests. Hardness testing by measurement of rebound	.186	Microscopic examination. Observation of structure, texture
.154	Special hardness testing methods, e.g. at various temperatures	.187	Examination with electron microscope
.156	Various influences on hardness testing, e.g. temperature. Influence of apparatus, tool etc.		—537.533.35; 621.385.833
.16	Wear testing. Friction, abrasion testing	.5	Replica technique
.2	Brittleness and toughness testing	.19	Material defects and their testing. Imperfections, faults, flaws. Chemical and physicochemical influences. Corrosion. Erosion.
.3	Strength testing with varying load. Repeated impact tests. Repeated dynamic stress tests. Fatigue tests		—67.019
.311	Generalities. Direction of stress. Effect of forces	.191	Surface defects
		.3	—620.193
		.4	Macroscopic irregularities
			Microscopic irregularities

620.191.5	Alteration of reflectivity. Matting. Loss of gloss, lustre, sheen. Haze formation. Blooming. Opacification —535.345.3; 535.361.2; 539.23	620.21	Raw materials
.7	Chromatic irregularities. Flecking. Spotting. Clouding. Staining. Fading. Discoloration. Changes, irregularities of colour	.22	Workable, processable materials
.192	Internal defects	.26	Dangerous goods or materials —614.75; 656.073.436; 656.833.3
.2	Alteration of consistency. Hardening. Softening. changes of viscosity. Thickening	.261	Explosives
.3	Alteration of homogeneity by foreign gaseous or liquid constituents. Inhomogeneities. Formation of blisters, blowholes. Bubbling. Sweating. Streaking	.1	Explosives with mass explosion risk
.4	Alteration of structure, e.g. by crystallization, vitrification, thermal changes. Inclusions (foreign bodies). Shrinkage faults etc.	.2	Explosives which do not explode en masse
.5	Alteration of volume	.262	Gases, compressed, liquefied or dissolved under pressure
.52	Shrinkage. Contraction	.263	Flammable liquids
.53	Swelling. Expansion	.264	Flammable solids. Substances liable to spontaneous combustion. Substances which, on contact with water, emit flammable gases
.6	Other internal defects, e.g. physical, chemical, biological, organoleptic	.265	Oxidizing substances, including organic peroxides
.7	Complete disintegration	.266	Poisonous and pathogenic substances
.193	Physical and chemical influences. Corrosion. Resistance to attack	.1	Poisonous, toxic substances
.1	Mechanical action. Erosion —620.194	.2	Infectious substances
.16	Cavitation	.267	Radioactive substances
.19	Erosion etc. as affected by permeability, absorptivity to liquids	.268	Corrosive substances
.2	Atmospheric corrosion. Effect of air, water. Resistance	620.4	POWER STATIONS <i>Class here only general studies. Class information about particular kinds of power and power station at the number for the subject</i>
.27	Effect of brine, salt water, seawater	620.9	ECONOMICS OF ENERGY IN GENERAL
.29	Permeability or imperviousness to air. Gas-tightness	.91	—621.48
4	Chemical corrosion. Effect of various corrosives, acids, alkalis. Caustic embrittlement etc.	.92	Energy resources in general. Natural sources of energy —627.8.093; 662.997
.5	Action of hot gases, vapours —536.4	.93	Potential, exploitability, utilization of energy sources
.6	Effect of radiation, including light	.95	Utilization of mechanical, chemical, physicochemical, physical energy
.7	Action of electric currents. Leakage, stray currents. Bimetallic corrosion	.96	Utilization of biological energy, e.g. from vegetation, animals
.8	Biological action <i>Details by colon combination with 57, 58, 59</i>	.97	Utilization of human energy
91	Effect of time. Natural ageing	.98	Utilization of other energy sources. Residual energy. Energy recuperation, regeneration —662.99
92	Effect of ground, soil	.99	Choice of energy sources for particular purposes
93	Effect of smelting, scorification, slagging	621	MECHANICAL ENGINEERING IN GENERAL. NUCLEAR TECHNOLOGY. ELECTRICAL ENGINEERING. MACHINERY <i>Class information about particular kinds of machinery at the number for the subject, e.g.</i>
94	Effect of temperature. Thermal destruction		622.23.05 Tools. Machines - Mining
96	Effect of storage conditions		677.05 Textile machinery and equipment
194	Mechanical influences on corrosion. Corrosion fatigue		<i>In 621.0 (as well as 626.0 and 669.05), .0 is not used to denote special auxiliary subdivisions. The .0 subdivisions are not transferable</i>
195	Influence of form and structure of the surface 620.195 ≈ 620.193	01	Mechanical engineering theory and principles. Mechanics as the basis of mechanical engineering
196	Influence of foreign bodies and impurities on corrosion. Intercrystalline corrosion	.03	Physical principles of engineering and technology. Technological applications of physics in general
197	Protection of materials —621.357.7; 621.793; 667.637.2	621.039	APPLIED NUCLEAR SCIENCE. ATOMIC ENERGY AND ATOMIC INDUSTRY. NUCLEAR ENGINEERING IN GENERAL —539.1
2	Surface protection by treatment with chemicals. Passivation	1	Raw materials for atomic energy <i>General aspects only, e.g. general discussions of uranium and thorium industries</i>
3	Protection by applying chemicals to the corrosive agent. Inhibitors		—553.495; 621.039.53/.54; 622.349.5; 661.879; 669.822
5	Protection by electric and electrolytic processes. Cathodic protection	.3	Isotope separation —539.183.2; 621.039.8
6	Protection by coating, painting etc.	.32	Isotope separation using chemical methods
7	Protection by impregnation, by additives		
198	Properties and testing of coatings and protective layers 620.198 ≈ 620.193		
199	Accelerated tests. Tests with exaggeration of natural conditions 620.199 ≈ 620.193		
620.2	COMMERCIAL MATERIALS. GOODS. WARES <i>Class here only general studies. Class information about particular substances at the number for the substance</i> —656.033.6; 658.62; 66.017		

621.039.322	Chemical exchange. Catalytic exchange. Exchange distillation —66.048; 66.097	621.039.536	Containment of core (moderator, coolant and fuel). Reactor pressure vessels. Pressure tube systems —621.039.546; 621.039.584; 624.953
.324	Adsorption methods	.537	Reflectors. Tamperers
.325	Ion exchange	.538	Reactor shielding
.327	Solvent extraction —66.061	.54	Fissile and fertile materials. Fuel elements and components —666.794
.33	Isotope separation using physicochemical methods		621.039.54:66.0 Chemical engineering details
.332	Distillation. Fractionation —66.048	.542	Fuels according to physical and chemical state. State of aggregation
.333	Electrochemical methods. Electrolysis. Electromigration —66.087	.3	Solids. Metals, cermets, ceramics
.335	Photochemical methods —66.085	.4	Liquids. Metals, fused salts, aqueous solutions
.337	Fractional crystallization. Fractional fusion. Zone melting —66.049.4	.5	Gases
.34	Isotope separation using physical methods	.8	Suspensions. Slurries
.341	Diffusion or effusion —66.063.2	.543	Fuels according to fissile component
.342	Separation by mass centrifuge —66.066.4	.4	Uranium fuels 621.039.543.4 669 822.5 Uranium alloys as fuels
.343	Electromagnetic separation	.6	Plutonium fuels
.345	Separation of helium isotopes at very low temperatures —536.48; 66-973	.544	Fuels according to non-fissile component
.37	Isotope separation using biological methods —66.098	.3	Fuels incorporating fertile materials
.4	Reactor engineering. Generalities on fission and fusion reactors	.5	Fuels incorporating stabilizers to improve performance
.5	Nuclear fission reactors	.6	Fuels incorporating moderators
Special auxiliary subdivisions		.8	Fuels incorporating combustible poisons
621.039.5.01/.08	Details of reactors 621.039.5.01/.08 ≈ 621.039.51/.58	.546	Fuel containers. Protective coatings, spacers and associated components
Principal divisions		.3	Containers. Cans. Sheaths
621.039.51	Reactor core theory and experiments. Reactor physics —539.1	.5	Interlayers. Internal spacers. Protective coatings
.512	Neutron kinetics in the reactor. Lattice parameters	.7	Support systems. External spacers
.2	Neutron multiplication	.8	Fuel assemblies, e.g. clusters of fuel rods
.4	Neutron diffusion and moderation	.547	Blankets, blanket elements. Uranium blankets. Thorium blankets
.513	Critical equations. Critical dimensions	.548	Behaviour and defects of fuel elements in service
.514	Reactor kinetics. Start-up. Transients	.3	Distortion. Change in shape or volume. Can ratcheting etc
.2	Without effect of delayed neutrons. Kinetics of fast reactors	.5	Can deterioration. Cavitation etc
.4	With effect of delayed neutrons. Kinetics of slow reactors	.8	Failure of elements. Results of defect tests
.515	Control theory —621.039.56	.55	Irradiation facilities and accessory equipment
.516	Operational behaviour —621.039.566	.553	For studying radiation effects —621.039.573
.2	Reactivity changes in operation	.554	For producing isotopes —621.039.574
.4	Fuel cycles. Relative composition of fissile and fertile components. Variations therein. Conversion ratio. Production of fissile materials. Shuffling. Breeding	.555	For nuclear measurements
.517	Heat development in reactors. Fuel rating. Energy output. Temperature distribution. Thermal potential	.556	Neutron beams
.519	Reactor core experiments	.557	Thermal columns
.2	Subcritical assemblies	.56	Reactor control and operation —621.039.515
.4	Critical assemblies	.562	Methods of controlling reactivity. Absorption: by rods and plates, by additions to coolant. Core dispersal. Moderator control
.52	Reactor types according to neutron energy	.564	Control instrumentation
.521	Heterogeneous reactors	.2	Neutron flux measurement
.522	Homogeneous reactors	.3	Temperature measurement: of coolant, of moderator, of fuel
.524	Thermal reactors	.5	Coolant flow and pressure measurement
.525	Intermediate reactors (epithermal reactors)	.566	Reactor operation. Testing, start-up, charging, discharging, shut-down
.526	Fast reactors	.568	Maintenance and inspection
.53	Reactor components and design considerations. Specific reactor materials	.57	Fission reactors according to purpose
.532	Moderators	.572	Experimental reactors (reactor itself is experiment)
.534	Coolants. Coolant systems. Cycles	.573	Reactors as irradiation facilities
.22	Overall coolant system	.574	Reactors for production of fissile materials and other radionuclides
.23	Core system	.3	Production of fissile materials
.24	Extra-core system. Clean-up, purification, filter circuits	.5	Production of other radionuclides (radioisotopes)
.25	Heat exchangers	.576	Reactors for heat generation (for district heating, process steam)
		.577	Reactors for electric power generation (for nuclear power stations) —621.311.25

621.039.578	Reactors for propulsion, in vehicles, craft —629.439; 629.7.036.8	621.039.86	Chronological applications. Radiochronology, e.g. geological and archaeological dating. Radio-carbon dating etc.
.58	Safety considerations. Siting, containment, fault analysis etc. —614.73; 614.876; 62-78	.9	Applications of nuclear science other than reactors or isotopes. Peaceful nuclear explosions 621.039.9:550.34.016 Nuclear explosions for seismological research
.583	Reactor siting. Consideration of population distribution, effluent disposal —621.039.7; 628.4; 658.21		
.584	Structural containment of released radioactive materials —621.039.536; 621.039.538	621.08	SIMPLE OR PRIMITIVE MACHINES
.586	Fault analysis generally	.086	Purely mechanical engines
.587	Safety devices and circuits	.2	Spring-powered engines. Clockwork devices
.588	Reactor excursions, accidental and deliberate —614.73; 621.039.514	.3	Weight-powered, gravity devices
.59	Treatment of reactor products. Chemical processing of spent fuels and fuel elements. Separation of fission materials —621.039.73	.087	Muscle-powered devices. Human-powered, animal-powered
.6	Controlled thermonuclear devices. Fusion reactors <i>Class particular types of fusion reactor under 621.039.62</i>	.1	By hand, arm. Manual devices
.61	Fusion reactor theory and experiments —533.9	.2	By tractive effort, pulling, hauling
.62	Types of controlled thermonuclear devices and fusion reactors	.3	Weight-driven devices. Treadwheels. Treadmills. Jinnies (ginneys). Treadle devices etc.
.623	Devices using externally applied closed magnetic lines. Stellarator. Astron etc.	621.1	HEAT ENGINES IN GENERAL. GENERATION, DISTRIBUTION AND USE OF STEAM. STEAM ENGINES. BOILERS
.624	Devices using externally applied open magnetic lines. Mirror machines. DCX. OGRA. Cusp Geometry. Ion Magnetron etc.	Special auxiliary subdivisions	
.626	Devices using internally generated closed magnetic lines. Toroidal pinch. Toroidal unpinch, hard core etc.	621.1.01	Theory of heat engines —536.8
.627	Devices using internally generated open magnetic lines. Linear pinch. Sheet pinch. Linear unpinch etc.	.011	Mechanical aspects
.629	Other devices. Rotating plasma. Radio frequency confinement (RF confinement) etc.	.013.1	Saturated steam
.63	Components. Fusion fuels, containment vessels etc.	.2	Supersaturated steam
.633	Fuels, e.g. H, ² H, ³ H, He, Li	.3	Superheated steam
.634	Containment vessels, including liner materials <i>Denote materials by :669 etc.</i>	.016	Matters relating to theory of heat
.637	Electrical equipment for fusion reactors. Power supply units. Energy storage and switching devices etc. <i>Details by :621.3</i>	.4	Temperature of machines and plant. Heat transfer. Heat losses —536.24
.64	Heating mechanisms. Electric and magnetic heating. Thermodynamic heating. Injection: electron, ion, neutral, plasma	.7	Thermodynamic aspects —536.7
.66	Operational measurements. Diagnostics 621.039.66 = 53.082	.018	Efficiency. Power. Performance tests
.67	Controlled thermonuclear devices and fusion reactors according to purpose 621.039.67 = 621.039.57	.2	Mechanical efficiency
.68	Safety considerations. Siting, containment, fault analysis etc. 621.039.68 = 621.039.58	.4	Thermodynamic efficiency
.7	Radioactive waste management —614.73; 621.039.583; 628.4.047	.5	Thermodynamic output
.73	Treatment of wastes —621.039.59	.7	Power. Horsepower
.74	Storage and transport of wastes	.8	Devices for determination of performance characteristics. Efficiency, power, output measurement
.75	Waste disposal	.82	Brake dynamometers. Dynamometric brakes
.76	Waste monitoring	.86	Indicators
.77	Utilization of wastes, fission products —628.388	Principal divisions	
.8	Applications of isotopes generally: radioisotopes, stable isotopes	621.11	Steam plant <i>Comprehensive works on steam plant regardless of form of output</i> —621.311.22
.83	Applications involving effects of radiation on matter. Therapeutic use. Food sterilization. Polymerization links etc.	12	Marine steam engines. Engines for steam-powered vessels, craft —621.16/.18; 629.12
.84	Applications involving effects of matter on radiation. Non-destructive testing. Gamma-radiography. Thickness testing etc.	13	Railway steam locomotives. Steam railcars —629.42
.85	Applications as tracers, indicators. Use of labelled compounds	133	Locomotive boilers
		.134	The steam engine of a locomotive
		.1	Driving gear
		.5	Steam turbines —621.165
		.8	Condensation —621.175
		.135	The running gear of a locomotive
		.1	Frames. Stayplates. Boiler supports. Driver's cab. Footplate etc.
		136	Tenders. Water scoops. Water tanks. Fuel storage etc.
		.137	Arrangements for driving and firing locomotives
		.138	Terminal facilities. Depots. Maintenance. Inspection. Cleaning. Fuelling. Watering. Locomotive sheds. Locomotive repair shops —629.47/.48; 725.33
		.14	Steam locomotives for use on roads and land. Non-rail steam carriages. Steam traction engines. Steamrollers —629.113.2

621.15	Movable steam engines, not self-propelled. Travelling steam engines. Special-purpose mobile steam engines. Steam-powered fire engines, dredging, excavating plant etc.	621.181.23	Boilers with heat-transfer media other than steam, e.g. oil
.16	Types of steam engine, especially stationary	.24	Solar heat boilers (helio-boilers)
.161	Reciprocating piston steam engines	.25	Electric boilers. Electrode boilers
.165	Steam turbines	.27	Waste-heat boilers
	—621.134.5	.182	Boiler operation. Handling, regulation, inspection of boilers
.1	Impulse turbines (velocity turbines)	.1	Boiler feed. Feed water. Condensate
.2	Reaction turbines	.2	Boiler inspection and regulation
.3	Combined impulse and reaction turbines	.24	Steam temperature control on the fire side
.4	Friction turbines. Helical turbines		—621.184.6
.5	Steam turbines according to state of steam	.26	Steam pressure control. Steam delivery control
.51	Wet-steam turbines	.3	Fuel consumption
.52	Dry-steam turbines	.4	Boiler impurities and deposits and their removal
.53	Superheated-steam turbines	.42	External deposits, e.g. soot, ash. Their removal
.58	Mixed-steam turbines	.44	Internal deposits. Boiler scale, sediment formation. Their removal
.6	Exhaust steam turbines. Bled steam turbines. Low-pressure steam turbines	.5	Maintenance of machinery. Lubrication. Lagging. Packing etc.
.7	Turbines according to general construction. Disc turbines. Drum turbines	.9	Firing. Starting up. Blowing off. No-load, standby operation etc.
.166	Rotary piston steam engines		—662.92
.17	Operation of steam engines. Condensation	.92	Blowing off
.175	Condensation. Condensers. Coolers	.183	Boiler accessories. Safety devices. Operating devices
	—621.134.8	.3	Small fittings. Safety devices. Operating devices. Water-level indicators (water gauges). Test valves. Test cocks. Feed alarms. Pressure gauges. Manometers. Safety valves
.1	Surface condensers		—621.646.28; 621.646.4
.2	Direct-contact condensers. Jet condensers (spray condensers)	.4	Boiler fittings. Devices for boiler inspection and maintenance. Manholes etc.
.42	Combined condensers	.184	Boiler elements
.43	Multi-stage condensers	.2	Evaporator elements. Tube systems
.44	Evaporative, open-surface condensers	.3	Steam superheaters
.45	Rotary, centrifugal condensers	.4	Feed water preheaters. Economizers
.46	Spiral condensers	.5	Air preheaters
.63	High vacuum condensers for exhaust steam turbines	.6	Steam temperature control on the water side. Steam coolers
.65	Condensers for cold-steam engines		—621.182.24
.176	Pumps. Steam jet pumps. Injectors. Ejectors. Air suction pumps. Wet air pumps	.7	Boiler frames. Bricking-in. Tube linings
.177	Steam driers. Steam purifiers. Steam separators. Oil removers	.8	Auxiliary elements, installations, equipment
.178	Accidents. Breakdowns. Cylinder rupture. Bursting. Fracture. Flywheel disintegrations. Other failures of steam engine parts	.186	Distribution and circulation of steam. Exhaust steam utilization
	621.178 $\approx$ 621, e.g.	.1	Technique of steam circulation. Laws of flow. Losses due to cooling, friction, condensation
	621.178.165 Steam turbine explosions (from 621.165)	.2	Steam distribution from a central plant
	.175 Condenser explosions (from 621.175)	.3	Steam piping, tubing
.18	Steam boilers. Steam generators. Steam plant in general. Layout of boilers, main components and elements	.4	Heat insulation
	—621.772; 662.92	.6	Steam traps. Condensed water traps
Special auxiliary subdivisions		.8	Exhaust steam utilization
621.18.04	Boiler design		—662.99
.045	Single-pass boilers (single flue boilers)	621.22	HYDRAULIC ENERGY. WATER POWER. HYDRAULIC MACHINERY
.046	Horizontal boilers		—532; 533.6
.047	Multi-pass boilers (multi-tube boilers)	Special auxiliary subdivisions	
.05	Boilers according to type of draught, flue gas pressure or steam pressure	621.22.01	Theory
.06	Heating surfaces	.011	Mechanical aspects. Properties of materials for hydraulic devices. Design calculations
Principal divisions		.015	Dimensional analysis
621.181	Steam boilers and generators according to design and construction	.018	Efficiency. Power. Performance tests
.1	Boilers with direct heating	Principal divisions	
.12	Boilers with natural circulation (free-circulation boilers)	621.221	Sources and utilization of hydraulic energy. Hydraulic power plants in general
.122	Cylindrical boilers (Barrel boilers. Shell boilers)		—627.8
.123	Internally fired boilers (Fire-tube boilers. Furnace-tube boilers)	.2	Natural water courses. River power plants
.124	Externally fired boilers (smoke-tube boilers)	.3	Water storage power plants. Reservoir power plants
.125	Inclined water-tube boilers	.4	Pumped water storage plants
.126	Bent water-tube boilers	.223	Water wheels
.142	Once-through boilers. Flash boilers	.2	Overshot water wheels
.144	Forced-circulation boilers	.3	Undershot, backshot water wheels. Breast wheels
.15	Slag-tap boilers. Cyclone-fired boilers	.5	Floating mill-wheels
.2	Steam boilers of special design		—621.224.1
	—662.959.4		
.22	Boilers with indirect heating		

621.224	Water turbines	621.3.014.31	Arcs
.1	Impulse turbines (free jet turbines).		—537.52
	Tangential turbines. Pelton wheels. Girard	.33	Impulse currents
	turbines. Through-flow turbines. Banki	.38	Overcurrents
	wheels. Axial-flow turbines. Turgo wheels	.4	Eddy currents
.2	Reaction turbines (pressure turbines).	.5	Discharge-current time lag
	Francis, Jonval turbines etc.	.6	Leakage current
.3	Propeller turbines. Kaplan turbines	.7	Fault current
.6	Combined turbines and pumps in single	.8	Current resonance
	housing	.015	Voltage. Voltage peaks. Surges
.7	Reversible turbines (turbines usable as	.1	Voltage distribution. Rise and decay of
	pumps)		voltage. Voltage drop
.225	Positive displacement hydraulic motors	.2	Voltage variations, fluctuations
.2	Reciprocating piston motors	.3	Overvoltage. Surges. Transients. Impulse
.3	Oscillating, semi-rotary piston motors		voltages
.4	Rotary piston motors	.4	Voltage resonance
.5	Multiple radial piston motors		—621.3.013.6
.7	Multiple axial piston motors. Swashplate	.5	Discharge voltage. Disruptive, breakdown
	motors		voltage
.226	Hydraulic presses, accumulators, intensifiers.		—537.52
	Linear actuators. Hydraulic cylinders	.51	Puncture
.227	Hydraulic rams		—551.594.22
.1	For raising water. Montgolfier rams	.52	Flashover
.2	For drainage. Leblanc rams	.53	Discharge in boundary layer. Corona. Glow.
.3	For hydraulic pressure production. Sommelier		Surface discharge etc.
	rams	.54	Sparking at make and break of circuit.
			Sparking at brushes
621.3	ELECTRICAL ENGINEERING	.016	Torque. Power. Load
Special auxiliary subdivisions		.1	Torque
621.3-1/-9	Characteristics of electric machinery etc.	.2	Power
	<i>Details from 62-1/-9</i>	.22	Output power
621.3.01	General studies. Theory. Definitions.	.23	Input power
	Notation	.24	Active volt-amperes
.011	Fundamental formulae and quantities	.25	Reactive volt-amperes
2	Impedance. Reactance Resistance.	.26	Apparent power
	Conductance	.3	Load
21	Impedance. Admittance	.33	Load fluctuations. Load peaks and minima
.22	Resistance. Conductance	.34	Overload. Overload capacity
23	Reactance. Susceptance	.35	Stability
3	Inductance	.36	No-load operation
4	Capacitance	.37	Conditions during starting
5	Dielectric characteristics	.4	Active and reactive energy
6	Time constants of circuits	.017	Energy losses. Temperature change.
.7	Fundamental properties of active or passive		Efficiency
	networks. Network theory, analysis, synthesis.	.1	Losses due to electrostatic effects. Leakage
	Fundamental formulae, quantities, properties		Dielectric losses
.012	Diagrams and characteristics. Performance	.2	Losses in the conductor. Copper losses
	curves	.3	Losses in the magnetic field. Iron losses
.1	Vector diagrams	.4	Losses due to current collection.
.3	Curves. Nomograms		Commutation losses
4	Open-circuit characteristics	5	Friction losses
5	Short-circuit characteristics	.71	Heating
6	External, dynamic characteristics	.72	Cooling
8	Equivalent circuits	.8	Electrical efficiency of machines
013	Magnetic phenomena Fields Interference.	018	Phase. Frequency. Slip. Oscillations
	Excitation	.1	Phase. Phase difference. Phase shift.
.1	Flux. Saturation		Power-factor
2	Main fields Primary fields	2	Interaction (e.g. frequency of coupled
22	Stationary fields		circuits). Superposition
23	Rotating fields	3	Harmonics of current, of voltage
24	Oscillating, pulsating fields	4	Frequency Slip
3	Auxiliary fields Secondary fields	5	Synchronism Asynchronism
4	Commutation fields Armature reaction Effect	6	Mechanical oscillations. Hunting
	of displacing the brushes	.7	Wave form. Distortion
5	Magnetic leakage Fields in the slot	.72	Sinusoidal waves
6	Interaction between main field of a machine	.73	Flat waves
	and field due to load current	.74	Peaky waves
7	Interference between lines or apparatus	.75	Waves of special form. Saw-tooth waves.
71	Inductive interference between power and		Rectangular waves Step waves etc.
	communication lines	.78	Distortion
72	Capacitive interference between power and	.782	Linear distortion
	communication lines	.783	Non-linear distortion
8	Excitation De-excitation	.8	Damping Attenuation Decrement
014	Current	.019.1	Transformation ratio
.1	Current distribution. Growth and decay of	.3	Safety factor
	current	.02	Type and range of current, power, voltage,
12	Skin effect		resistance, frequency
13	Proximity effect	.021	Weak current. Low current in general
2	Current reversal. Commutation	.022	Strong current. Heavy current in general
		.024	Direct current (DC)

621 3 025	Alternating current (AC)	621 3 032 23	Anticathodes
1	Single-phase AC	24	Grids
.2	Two-phase AC	25	Internal screens and diaphragms (other than electron-optical systems)
3	Three-phase AC	.26	Electron-optical and ion-optical systems
.4	Other polyphase AC	.27	Electrodes for semi-conductor devices
026	Power	.27 1	Bases
.4	Active voltamperes. Watts	.272	Collectors
42	Less than 10^{-9}	.273	Emitters
43	10^{-9} to < 1 W	3	Light-emitting elements. Luminescent substances. Luminescent screens. Filaments of incandescent lamps etc.
44	1 to $< 10^9$ W	4	Regulating devices. Igniting devices. Heating. Cooling
45	10^9 W and greater	5	Frame posts. Supporting wires. Glass parts etc
5	Reactive volt-amperes	7	Lamp envelopes. Metal, glass, quartz envelopes. Clear, etched, opalized envelopes (pearl bulbs) etc. Bulbs. Globes. Tubes etc
6	Apparent volt-amperes	8	Lamp caps. Tube bases
027	Voltage. Tension	.81	Screw caps (e.g. Edison screw caps)
2	Low voltage. Low tension	82	Pin caps. Bayonet caps (e.g. Swan caps, caps to BS 52)
21	Very low voltages. < 1 V	83	Caps for fluorescent tubes
.22	1 to < 10 V	84	Special lamp caps, e.g. for tubular incandescent lamps, show window lamps, bipost lamps
23	10 to < 50 V	.85	Electron tube bases
.24	50 to < 100 V	9	Manufacture of lamps and tubes. Evacuating or filling. Sealing. Capping
26	Low voltage > 100 V	035	Individual parts for equipment in the electrochemical industry
3	High voltage. High tension in general	.1	Inactive external and internal parts. Receptacles. Vessels. Tanks. Dishes etc
.4	< 1 kV	15	External parts. Containers. Jackets. Supports. Closures. Lids. Caps. Seals
.5	1 to < 10 kV	18	Internal parts. Separators. Diaphragms. Envelopes. Distance pieces. Supports. Holders. Protectors
6	10 kV and over	2	Electrodes. Plates. Grids. Frames. Conductive supports. Electrolytes for galvanic cells (voltaic cells)
7	Very high voltage in general. Very high voltage < 100 kV	21	Aggregates. Pastes. Various mixtures
8	100 kV and over	22	Electrodes. Plates. Grids. Frames. Conductive supports. Electrolytes for primary and secondary galvanic cells —621 3.035.4
028	Resistance	22 1	Composition of electrodes, depolarizers, electrolytes
2	Low resistance	.223	Manufacture and construction of active parts (e.g. pasted electrodes and conductive supports)
.3	High resistance	.28	Deterioration of electrodes. Buckling. Formation of air bubbles
4	High-frequency resistance	.3	Diaphragms. Envelopes. Separators. Porous pots. Bags
029	Types of oscillation. Frequency and wavelength ranges	4	Electrolytes. Baths
4	Frequencies from 0 to < 30 kHz	5	Terminals. Lugs. Connections. Busbars
	Wavelengths $> 10\ 000$ m (myriametric waves). Low frequencies	6	Feeding, stirring, drying, regulation, circulation of electrolytes
.42	0 to < 100 Hz. ∞ to $> 3 \times 10^6$ m	7	Filling arrangements
.426	10 to < 100 Hz. 3×10^7 to $> 3 \times 10^6$ m	8	Emptying arrangements
	Power frequencies	9	Other devices. Mounting. Supervisory measures
	621.3 029 426.1/ 9 $\approx$ numbers 10 to 90 (deleting final zero), e.g.	.036	Transmission of heat. Individual parts of electric furnaces and heating apparatus
	621.3 029.426.5 50 to < 60 Hz. 6×10^6 to $> 5 \times 10^6$ m	.2	Accessories
45	100 to $< 30\ 000$ Hz. 3×10^6 to $> 1 \times 10^4$ m	.5	Transmission of heat from heating element to material
.5	Frequencies from 30 to $< 30\ 000$ Hz. Wavelengths $10\ 000$ m to > 10 m. High frequencies	.61	Casing. Containers. Baths. Boilers. Hearths. Linings
.51	30 to < 300 kHz. 1×10^4 to $> 1 \times 10^3$ m	66	Electrodes
53	300 to < 3000 kHz. 1×10^3 to $> 1 \times 10^2$ m. Hectometric waves. Medium waves	.7	Heating elements
.55	3000 to $< 30\ 000$ kHz. 1×10^2 to $> 1 \times 10^1$ m. Decametric waves. Short waves	.8	Charging of the furnace
6	Frequencies from 30 MHz to < 3 THz. Wavelengths from 1×10^1 to $> 1 \times 10^{-4}$ m. Ultra-short waves	.037	Emptying, discharging devices
62	30 to < 300 MHz. 1×10^1 to > 1 m. Very high frequency (VHF). Metric waves	.3	Special features of electrical oscillation technique
63	300 to < 3000 MHz. 1 to $> 1 \times 10^{-1}$ m		Type and representation of information —681.3.04
.64	Ultra-high frequency (UHF). Decimetric waves		
.64	3 to < 30 GHz. 1×10^{-1} to $> 1 \times 10^{-2}$ m		
.65	Centrimetric waves		
.65	30 to < 300 GHz. 1×10^{-2} to $> 1 \times 10^{-3}$ m. Millimetric waves		
.66	300 to < 3000 GHz. 1×10^{-3} to $> 1 \times 10^{-4}$ m. Decimillimetric waves		
.7	Frequencies of 3 THz and above. Wavelengths of 1×10^{-4} m and below		
.03	Special electrical engineering		
031	Power supply for special purposes. Auxiliary power supply		
032	Individual parts of electric lamps, discharge tubes. Electronic devices utilizing solid-state effects. Semiconductor devices		
.1	Vacuum systems. Filling gases. Getters		
.11	Vacuum systems		
.2	Electrodes. Internal screens and diaphragms		
.21	Cathodes		
.22	Anodes		

621.3.037.372.523	Pulse number or pulse counting (e.g. 7 pulses for digit 7)	621.3.049.63	Tappings. Junctions
.524	Pulse time or pulse position (e.g. pulse on 7th wire for digit 7)	.7	Mechanical construction. Structural materials and components
.7	Electrical pulse storage devices (stores)	.73	Wiring
.711	Storage capacity	.75	—621.315.3; 621.316.3
.713	Speed. Access time	.77	Printed circuits
.73	Components. Information carriers. Storage media. Writing, reading, regenerating, erasing devices. Address selectors	.05	Microelectronics. Integrated circuits
.75	Systems with several storage devices. Transfer of numbers or words between stores	.051.2	Transmission. Choice of transmission system. Power transmission, distribution
.038	Special features and parts of electronic equipment	.3	Principal lines. Ring mains. Coupled lines
.6	Features and parts for production of active rays and corpuscular beams	.052	Secondary lines
.61	Features and parts specific to particle accelerators	.2	—621.316.1
.62	Accelerators according to particles accelerated	.3	Choice of transmission system
.624	Electron accelerators	.4	Two-conductor system
.625	Proton accelerators	.5	Multiconductor system
.628	Accelerators for other particles, e.g. deuterons, heavy ions	.6	Meshed network system
.8	Features and parts of masers and lasers	.7	Series transmission
.82	Active parts according to material: gases, liquids, solids	.053	Mixed transmission. Simultaneous use of direct and alternating current. Information transmission over power lines
.84	Excitation devices. Pumps	.054	Transmission of several frequencies over the same line
.04	Components of electric machines, transformers, apparatus. Insulation. Connection. Windings	.1	Earthing. Conducting lead to earth. Indirect earthing, through resistor, reactor, capacitor. Direct earthing (solid earthing)
.041	Generalities. Dimensions. Weight	.2	Special arrangements about inductance and capacitance of transmission lines
.042	Magnetic circuit. Cores. Laminations. Slots. Slot wedges	.3	Transposition of lines to diminish mutual inductance
.1	Cores. Poles. Yokes	.4	Krarup cable
.4	Air gap	.056	Pupin cable
.7	Components using magnetic leakage. Magnetic shunts	.06	Devices to balance capacitances
043	Armatures	.061	Mechanical stresses and strains in transmission lines. Line deformation. Sag. Weather damage: wind pressure, icing, frost etc.
.2	Fixed armatures. Stators	.06	—621.315.32
.3	Rotating armatures. Rotors	.061	Methods of connection. Switching. Circuit-breaking
044	Field magnet systems	.062	Diagrams of connections. Circuit diagrams
.2	Stationary magnet systems. Stator field	.1	—621.316.31
.3	Rotating magnet systems. Rotor field	.2	Methods of connection. Switching methods
.6	Poles	.4	Connection in parallel. Operation in parallel
045	Windings	.6	Connection in series. Operation in series
.1	Forms of winding. Wire, bar, disc, cylindrical windings. Foil windings	.064	Cascade connection (tandem connection)
2	Windings for direct current in general. Armature windings. Lap, wave, open windings etc.	.1	Zigzag connection
3	Field windings for direct current	.2	Switching operations. Switching phenomena. Circuit-breaking in general
31	Windings for series field excitation	.3	Short circuiting
32	Windings for shunt field excitation	.4	Circuit-breaking. Arc rupture
33	Windings for compound field excitation	.066	Breaking capacity. Recovery voltage
5	Windings for alternating current	.31	Blowout, extinction, quenching of arc. Spark quenching. Arc-chute. Baffles. Blowout coils. Gas, air blast etc.
51	Single-phase windings	.32	Design and mechanism of switches in general. On-off devices
52	Two-phase windings	.33	Design of switches. Number of poles
53	Three-phase windings	.6	Single-pole switches
54	Other polyphase windings	.7	Two-pole switches
56	Short-circuited rotor windings (squirrel-cage windings)	.8	Three-pole switches
57	Slip-ring rotor windings	.9	Multi-pole switches
58	Multi-pole windings	.067	Design of current-carrying parts. Contact design
6	Coil windings	.07	Closing and interlocking of switches
7	Damper windings	.072	Mechanical and electric actuators
046	Winding supports. Spools	.1	Regulation of specific electric machines
047	Current collection devices	.2	For electric regulation in general — 621.316.7
2	Commutators	.31	—62-5
3	Slip-rings	.32	Regulation of electrical quantities
4	Brushes	.33	Regulation of current
5	Brush holders. Brush rockers	.6	Regulation of voltage
048	Insulation of machines and apparatus	.7	Regulation of resistance, impedance
	Denote insulating materials by 621.315.61	.8	Regulation of inductance
049	Construction of the electric circuit	.9	Regulation of capacitance
6	Designated points of the electric circuit	.072	Regulation of frequency
.61	Measuring points	.1	Regulation of phase
62	Input	.2	Regulation of power, load. Load-balancing
	Output	.3	Regulation of combined voltage, phase and frequency. Synchronization

621 3 073	Regulation of magnetic quantities	621.311.1	Supply networks from distribution point of view. Regional networks, grids. Supply districts. Substations. Electrification schemes —621.316.1
.1	Regulation of induction		
.2	Regulation of polarity		
.3	Regulation of premagnetization		
.4	Regulation of saturation	.15	Output of station. Capacity. Load factor.
.076	Methods of regulation		Diversity factor. Available power
1	Regulation by compounding, compensation, buffer action	.16	Utilization of residual electrical energy, excess energy. Distribution of load. Network coupling. Station interconnection
.2	Regulation by variation of reluctance or permeability	.17	Design of power stations. Layout and space requirements of machines, equipment. Layout of switchgear
3	Regulation by changing the number of turns or connections of exciter winding		
5	Regulation by special connections	18	House sets for power stations. Auxiliary machines and equipment of power stations
51	By star-delta connections	2	Power stations according to type of prime mover
.52	By series-parallel connections		<i>The -18, -6 and -8 auxiliaries listed under 62 are particularly applicable here</i>
6	Regulation using auxiliary circuits	21	Hydroelectric power stations —621.221, 627.8
61	Shunt regulation	22	Power stations using steam plant
.62	Regulation by electrodynamic coupling with other apparatus	23	Power stations using other kinds of heat engine, e.g. combustion engines
63	Regulation by magnetic coupling with other apparatus	24	Wind-powered power stations
.7	Regulation by discharge tubes, electronic devices —621.3.077.6	25	Power stations using other energy sources —621.039.577
.077	Regulation by special apparatus		
.1	Regulation by rheostats	28	Mobile generating equipment
.2	Regulation by motors, servomotors	29	Utilization of natural electrical and magnetic energy sources
.3	Regulation by generators	.4	Substations. Power distribution plant
.4	Regulation by transformers	41	Substations with accumulators
.5	Regulation by accumulators	42	Substations with transformers. Local substations. Transformer houses
6	Regulation by relays	.43	Substations with rotary units
62	By electrodynamic relays	44	Substations with static convertors, with rectifiers
.63	By electrostatic relays	.47	Switching stations
.64	By valve relays	48	Mixed substations
65	By grid-controlled rectifiers	6	Arrangements for power supply to apparatus
.7	Regulation by inductors, transductors	61	Independent power sources. Primary cells. Accumulators
8	Regulation by capacitors	.62	Power from electric mains
078	Automatic regulation	68	Power from independent sources and mains combined
3	To constant value or values	8	Emergency power supply (standby generators etc)
4	To a dependent variable	.313	Electric machines —62-83; 621.314; 621.319; 621.363
079	Electric regulation of non-electric quantities (except motion) —621.316.7; 662 927	1	Generators and motors in general
08	General principles and theory of measurement and the design of measuring apparatus. Measurement methods 621.3 08 ≈ 53 08 —531.7; 621.317; 681.2	12	Generators. Dynamos 621 313.12-8 Generators according to motive power <i>Details from 62-8</i>
.09	Transmission properties —537.86; 621.372.2		
091 1	Attenuation	.13	Motors
.2	Gain	.14	Universal motors
092.2	Transmission time. Propagation velocity	.2	Direct-current machines
.22	Phase velocity	.22	Direct-current machines according to winding
24	Group velocity. Signal velocity	222	With series excitation
3	Paths	223	With shunt excitation
4	Distances	224	With compound excitation
5	Angles. Elevation angle Incident angle Wave arrival angle	225	With open armature winding
093	Frequency phenomena. Doppler effect	226	With special forms of winding, e.g. over-compounded. Windings for lowering voltage
095 1	Polarization	23	Direct-current machines according to brush arrangement
2	Distribution of energy	.236	With special brush arrangement
3	Field strength	.1	Cross-field machines
.4	Radiated power	.2	Metadyne machines
Principal divisions		.3	Other amplifier machines. Amplidyne machines
521 31	Generation, supply and control of electricity. Electric machines and apparatus. Electrical measurement. Applied magnetism. Applied electrostatics —62-65; 62-83 <i>Class particular electric machines at the number for the subject, adding -65 or -83 if required, e.g.</i> 621.791.033-65 Electric soldering irons 631.352.93-83 Electric lawnmowers	28	Direct-current machines according to movements of armature and field
.311	Power generation and supply. Power stations	.281	With rotary armature or field
	Power supply systems, equipment, layout.	.282	With linear movement
	Electrification schemes	.283	With undulatory or oscillatory movement
		.291	Homopolar, unipolar DC machines
		.292	DC machines without commutator or slip-rings

621.313.3	Alternating-current machines —621.314.5	621.314.24	Transformation by means of rotating machinery
.32	Synchronous machines	.241	Motor generators. Rotary converters
.322	Synchronous generators	.25	Phase converters. Phase transformers
.323	Synchronous motors	.26	Frequency converters. Frequency changers —621.372.63
.325	Synchronous capacitors. Phase advancers	.27	Simultaneous phase and frequency changing using grid-controlled current converters. Mercury-arc rectifiers. Thyratrons etc. —621.314.65; 621.387.1
.33	Nonsynchronous machines (asynchronous machines). Induction machines	.5	Conversion of alternating current into direct-current and vice versa. Convertors. Invertors —621.314.6
.332	Induction generators	.52	Motor generators
.333	Nonsynchronous motors. Induction motors	.53	Rotary converters
.334	Compensated induction motors. Synchronous-asynchronous motors. Synchronous induction motors	.54	Cascade converters
.335	Nonsynchronous phase convertors. Phase advancers	.57	Static convertors with discharge apparatus. Choppers. Invertors
.36	Commutator machines	.58	Reversible current convertors
.37	Repulsion machines	.6	Conversion of alternating current into direct current. Rectification. Rectifiers and rectifier equipment <i>Class here information about complete apparatus or plant only. For substations with rectifiers — 621.311.44. Class active parts with the subject, e.g. for semiconductor devices — 621.382; for pool-cathode discharge tubes — 621.387.2</i>
.391	Homopolar, unipolar AC machines	.62	Mechanical rectifiers. Contact rectifiers etc.
.392	AC machines without commutator. Hysteresis machines	.63	Dry rectifiers. Barrier-layer rectifiers. Solid-state, semi-conductor rectifiers. Selenium rectifiers etc.
.5	Generators and motors based on the influence of electric or magnetic induction effects on fluid flow	.64	Electrolytic rectifiers
.52	Generators	.65	Low-pressure metal-arc rectifiers. Mercury-arc rectifiers —621.314.27; 621.387.2
.522	Magnetohydrodynamic generators	.66	Atmospheric arc rectifiers (Marx rectifiers). High-pressure arc rectifiers
.523	Magnetoplasmadynamic generators	.67	Thermionic rectifiers. Glow-discharge rectifiers
.524	Magnetogasdynamic generators	.671	Hot-cathode rectifiers. Thyatron rectifiers etc. —621.314.27; 621.387.13
.53	Flow motors. Induction pumps. Electrodynamic jet propulsion systems	.672	Glow-discharge rectifiers. Cold-cathode rectifiers
.532	Flow motors using flowing liquids	.315	Transmission of electric energy. Power distribution and telecommunication lines. Conductors. Insulating materials. Accessories. Design, construction of lines
.533	Flow motors using flowing gases	.1	Bare lines. Open-air lines. Overhead lines —621.315.24
.534	Flow motors using flowing plasmas. Electrogasdynamic jet propulsion systems	.14	Bare lines in general. Stranded lines. Hollow, tubular lines
.8	Magnetoelectric machines. Permanent magnet machines	.17	Design, erection, maintenance of overhead lines —621.316.9
.82	Design. Armature, magnet, flywheel etc.	.2	Insulated conductors in general. Cables (land, sea cables) —621.315.3; 677.73 621.315.2-777.6 Colour-coding of cables
.84	Special-purpose magnetoelectric machines	.21	Cables according to insulation, structure
.314	Transformation. Transformers. Convertors. Rectifiers —621.313	.211	Cables according to insulation. Solid, liquid (oil-filled), gas-pressure insulation etc.
.1	Direct-current transformation (DC/DC transformation). Motor generators.	.212	Concentric cable. Coaxial cable
.2	Direct-current transformers. Induction coils	.213	Non-concentric cable. Stranded, twisted cable. Segmental cable etc.
.21	Alternating-current transformation (AC/AC transformation). Alternating-current transformers, convertors etc.	.216	Insulated tubular conductors
.211	Alternating-current transformers	.22	Armoured, sheathed cable. Armouring. Sheathing
.212	With air insulation and cooling	.221	Sheathing
.213	With oil insulation and cooling	.222	Mechanical protection. Armouring
.214	With insulation and cooling by means other than air and oil	.223	Combined sheathing and armouring. Bedding (layer between sheathing and armouring)
.214	Adjustable transformers. Variable-ratio transformers in general	.227	Serving (outermost protective layer), e.g. of jute
.2	Induction regulators	.23	Underground cable: arrangements and laying —621.798.114
.3	Transformers with variable turns ratio		
.5	Transformers with variable magnetic circuit		
.22	Transformers with ordinary closed ferromagnetic circuit 621.314.22.08 Measuring transformers (instrument transformers)		
.222	Voltage transformers 621.314.222.1/45 = 621.314.211/214.5		
.6	Power voltage transformers		
.7	Boosting transformers		
.8	Instrument-type voltage transformers		
.223	Autotransformers 621.314.223 = 621.314.21		
.224	Current transformers 621.314.224.1/45 = 621.314.211/214.5		
.8	Instrument-type current transformers		
.228	Special-purpose transformers. Transformers as balancers, compensators, equalizers. Interphase transformers (interphase reactors). Negative booster transformers		
.23	Transformers with special closed ferromagnetic circuit, open ferromagnetic circuit, or none. Transformers with air gap, with air core. Swinburne, Hedgehog, Tesla transformers (Tesla coils)		

621 315 24	Aerial cable: arrangements, erecting —621.315.1	621 315 684	Non-permanent junctions. Removable connectors. Clamps Screw holders. Terminals. Tag strips
27	Floating cable		Terminal boxes
28	Underwater cable (submarine and river cables) Arrangements, laying, e.g. from cable-laying ships Underwater cable recovery	685 687	Cable junction details Junction boxes Cable accessories. Cable clips, connectors, shoes, lugs etc.
3	Insulated wires, flexible cords Domestic flex Interior wiring —621.315.2	.316	Distribution and regulation of electric energy Switching Commutation Circuit-breaking Protection
32	Insulated wires according to application —621.3.056	1	Distribution networks (in buildings etc) —621 311.1; 696 6
322	Heat-resistant wires Ignition wires Furnace leads. Soil-heating wires —621 365		621 316 1 024 Direct-current networks 025 Alternating-current networks
323	Wires resistant to tropical climates	17	Electric installations in buildings and on sites
324	Wires resistant to rough treatment Heavy-duty flex		Electric installations in vehicles and for traffic and conveying routes
325	Wires resistant to chemical corrosion	3	Switching Commutation Switchgear —621 3 049 73, 621 3 061/ 062, 621 315 37
33	Insulated wires according to covering material 621 315 33 = 621 315.61	31	Switch and wiring diagrams Layout of complete installations
34	Insulated double and multiple, stranded wires Flexible cord (flex). Litz wires —621.315.14	.311 312	Indoor installations Outdoor installations
35	Armoured wires, e.g. lead cable —621 315 222	34	Switchboards Switchboard panels Control consoles, desks Switch cabinets Distributing switchboards
36	Screened wires		Busbars Busbar systems
37	Laying, fixing of insulated wires —621.3 049 73; 621.316 3	.35 36	Protective arrangements for electric equipment Boxes Cases. Hoods Covers etc —62-758; 621 315.673; 621 315 687
.5	Conductors and semiconductors according to material		Central switch plant General control, supervision posts Emergency switchgear
55	Metal or alloy conductors	37	Opening and closing of circuits.
56	Carbon, e.g. graphite conductors	5	Circuit-breakers Holders
57	Other solid non-metal conductors		Interruption (tremblers)
58	Liquid conductors	52	Contactors (magnetic switches)
59	Conductors with very high resistance Semiconductors	53	Switching devices
6	Insulating materials. Insulators Installation devices, supports etc. Distribution and transmission line accessories	54 541	Plug-and-socket devices 621 316.541-78 With safety contacts
61	Insulating materials (insulants). Dielectric materials	11 12	Sockets Plugs
611	Solid insulating materials in general	2	Plug contacts
612	Ceramic and similar materials Porcelain Glass Vitreous enamel etc —666.185; 666 593; 666 638; 666.651	3 4	Plug switches Plug changeover switches
613	Natural mineral insulants Mica Asbestos Quartz etc.	.542 1 2	Switches Lever switches Rotary switches Drum switches
614	Fibrous materials Paper. Board Textiles etc	3	Push-button switches
615	Liquid insulants. Transformer oils Circuit-breaker oils etc.	4 6	Pull switches. Cord switches Slider switches
616	Macromolecular insulants Rubbers Plastics Synthetic resins etc	7	Roller switches
617	Dried liquid insulants Paints Varnishes Drying oils. Silicones etc. —667.637 4	543 544 .545	Changeover switches Combination switches Selectors Section switches Isolators —621 316 923
618	Gaseous insulants	546	Interruption and switches with liquid contacts. Mercury switches etc
62	Insulators. Bushings		Cell switches Battery switches Accumulator switches
622	Insulators according to shape: cup (single-cup, double-cup etc), diaboloid Post, pin, pedestal insulators	56 57	Automatic switches Circuit-breakers
623	Suspension insulators Insulator strings	.573	Overcurrent releases
.624	Shackle insulators. Strain insulators	.578 1	Time switches
625	Bushings	.58	Holders —621.3 032.8; 621.3.048 621.316.58-213.2 Drip-proof, splash proof holders .34 Gas-tight, explosion-proof holders -783.3 Holders with protection against accidental contact
626	Spool insulators		Screw holders
627	Insulator supports. Insulator mounting, fixing Wall fixings, mast fixings etc.	.581 .582	Pin holders. Bayonet holders
65	Poles, masts, pylons, towers for support of overhead lines	583 584	Holders for fluorescent tubes Holders for special lamps, e.g. for bipost lamps
66	Protective enclosures, conduits, boxes Conduits. Pipes. Ducts	.585	Electron tube holders
.671	Distribution boxes. Ceiling roses —62-758; 621.316.36		
.673	Fixing of conduits, pipes, ducts. Conduit fittings		
674	Joining, splicing, connecting of wires. Cable junctions		
.68	Permanent junctions. Fixed cable connectors		
.682	Rigid and articulated connections		
.683			

621.316.7	Regulation of electric apparatus in general.	621.316.96	Protection against mechanical accidents (e.g. breakage of electric lines)
	Regulators	.97	Protection against magnetic influences, mutual inductance, earth currents
	— 62-5, especially -55; for regulation of specific electric machines — 621.3.07	.98	Lightning conductors
.71	Electric regulation and regulators of motion. Electric starting and braking	.99	—551.594.2; 621.316.933.2; 621.316.938
	—62-573; 621.337		Earthing
.717	Electric starting in general. Starters		—621.316.935
.718	Control of running, motion, speed	.317	Electrical measurement (methods and apparatus)
.719	Electric braking in general		—621.3.08
.72	Regulation of electrical quantities in general	.2	Equipment for electrical laboratories. Laboratories for testing, calibration etc.
.721	Current regulation. Current regulators		621.317.2:621.315.2 Cable-testing laboratories
.722	Voltage regulation. Voltage regulators	.3	Measurement of electrical quantities
.1	Devices for maintaining constant voltage. Voltage stabilizers	.31	Current measurement. Measurement of charge, quantity of electricity
.4	Devices for dividing voltage. Voltage dividers	.32	Measurement of electromotive force, potential, field strength, voltage
.723	Impedance regulation. Regulation of resistance, inductance, capacitance	.33	Measurement of resistance, impedance, reactance, conductance, inductance, capacitance, permittivity
.726	Frequency regulation. Frequency regulators	.34	Measurement of transmission characteristics of networks and lines
.727	Regulation of phase difference. Power factor correction	.35	Wave-form analysis, recording. Oscillographic methods. Measurement of harmonics and modulation
.728	Electric power regulation. Power regulators. Load regulators	.36	Measurement of frequency, wavelength
.729	Synchronization. Synchronizers	.37	Measurement of power factor and phase difference. Determination of phase sequence
.73	Regulation of magnetic quantities in general. Induction regulators	.38	Measurement of power and energy. Active power. Energy losses. Energy consumption
.79	Electric regulation of non-electrical quantities except motion	.39	Electrical measurement of non-electrical quantities
	—621.316.71; 621.316.73; 662.927		621.317.39:531 77 Electrical measurement of angular velocity
.8	Resistors. Rheostats	.4	Measurement of magnetic quantities. Magnetic testing
	<i>Denote conductor and insulating materials by 621.315.5/6</i>		—537.67
.82	Variable resistors. Rheostats	41	Measurement of permeability, susceptibility
	—621.316.544; 621.316.71; 621.317.727	.42	Measurement of magnetic fields, magnetizing force, magnetic induction
.84	Metallic resistors in general	43	Measurement of magnetic losses, iron losses
.86	Non-metallic solid resistors, e.g. carbon	.44	Hysteresis losses. Eddy-current losses
.87	Liquid resistors, e.g. aqueous solution		Apparatus for magnetic measurement. Exploring coils (search coils). Magnetic balances. Magnetic needles. Magnetometers. Fluxmeters etc.
.88	Gas resistors	.45	Direction indicators for lines of force. Polarity indicators
9	Protection. Protective devices. Fuses. Earthing	.49	Magnetic measurement of non-magnetic quantities
	—614.825; 62-758.3; 62-78		—620.179.14
.91	Protection against overcurrents and overvoltages in general	6	Determination of relation between measured quantities. Establishment of characteristics, diagrams
.92	Protection against overcurrents and overvoltages of internal origin	.61	Measurement of relation between electrical quantities. Measurement of turns ratio (transformation ratio), short-circuit characteristic etc.
923	Protective devices depending on heating of conductor. Fusible wires. Fuses	62	Measurement of relation between magnetic quantities. Plotting of hysteresis curves
925	Protection by relays. Selective protection	63	Measurement of relation between magnetic and electrical quantities
	—621 318.5	66	Measurement of efficiency
93	Protection against overcurrents and overvoltages of external origin. Surge protection. Lightning protection	7	Electrical measuring apparatus and instruments. Electric indicators, meters, recorders
	—621.316.98/99		621.317.7:621.314.6 Rectifier meters
932	Protection against flashover. Flashover arc extinction	71	:621.385 Electron-tube meters
933	Surge protection. Surge arresters. Voltage arresters		Apparatus for measurement of current intensity and quantity of electricity. Current-direction indicators. Electrodynamometers etc.
1	Spark gaps, e.g. sphere gaps	713	Voltameters. Coulometers
2	Horn-type lightning arresters	714	Ammeters
	— 621.316 98	.715	Galvanometers
6	Discharge tubes. Gas-filled protectors. Ionic and cathode-drop arresters	.72	Apparatus for measuring electromotive force, voltage, voltage gradient
8	Contact protectors		
935	Protective devices based on inductance. Current-limiting reactors. Line choking coils. Earthing reactors. Arc-suppression coils (Petersen coils)		
	—621 314 228; 621 318 4		
936	Protective capacitors		
	—621 319 4		
937	Combined protective devices, e.g. capacitors and coils		
938	Protective devices based on electrolytic action of current. Electrolytic lightning arresters		
94	Protection against transients of internal origin (harmonics, steep wave-fronts)		
95	Protection against combined effect of several electrical influences		

621.317.722	Electroscopes. Potential indicators Voltage detectors. Polarity indicators	621.318.5	Relays
723	Electrometers	.51	—621.316.925
.725	Voltmeters	.53	Electrostatic relays
726	Peak voltmeters (crest voltmeters)	.56	Electrolytic relays
727	Voltage-matching apparatus. Voltage dividers Potentiometers etc.	.562	Electromagnetic relays
.728	Spark gap voltmeters	.563	Direct-current relays
73	Apparatus for measuring resistance, impedance, inductance, capacitance, permittivity	.57	Alternating-current relays
.732	Resistance boxes	.58	Electronic relays Electron switches
733	Bridge instruments, e.g. Wheatstone, Kelvin bridges	.319	—621.385
734	Ohmmeters	.1	Photoelectric relays (light relays)
.735	Apparatus for testing insulation	2	Applied electrostatics
736	Leakage indicators. Short-circuit indicators	3	—537.2
737	Circuit-quality meters (Q-meters)	.1	Applied ferroelectricity
738	Apparatus other than bridge instruments for measuring inductance, capacitance, permittivity	2	Electrets
74	Apparatus for measurement of transmission quantities. Attenuation, amplification meters	3	Electrostatic machines Electrostatic generators
	Standing-wave indicators. Level, coupling-factor indicators	32	Frictional electrostatic machines
75	Apparatus for examining wave-forms. Oscillographs	33	Influence machines (electrostatic induction machines) Wimshurst machines Van de Graff generators etc.
752	Contact apparatus	34	Electrostatic machines with external feed (electric discharges)
753	Electrostatic and electromagnetic oscillographs	.4	Capacitors
.755	Cathode-ray oscillographs	43	—621.316.936
.757	Harmonic analysers. Distortion factor measurement	44	Continuously variable capacitors
76	Frequency meters. Oscillation indicators	45	Capacitor banks Capacitors with stepwise regulation
77	Phase difference indicators. Power-factor meters. Phase sequence indicators. Synchroscopes	46	Electrolytic capacitors
78	Apparatus for measuring power, energy consumption etc.	.47	Compressed-gas capacitors (pressure-type capacitors)
782	Load indicators	.48	Vacuum capacitors
783	Volt-ampere meters	.52	Non-variable liquid capacitors
784	Wattmeters	.53	Direct-voltage circuits Greinacher, Cockcroft circuits
785	Watt-hour meters Electricity supply meters	.54	Impulse circuits Surge generators Marx generators
787.1	Ampere-hour meters	7	Alternating-voltage circuits for damped processes. Tesla circuits
.2	Time meters	74	Electrostatic fields. Field distribution
791	Universal apparatus Apparatus for measuring several quantities	.32	Devices for avoiding unwanted fields and charges. Electrostatic screening, shielding
.794	Apparatus for measuring radiant energy		—621.316.99
318	Bolometers		Electric lamps
	Applied magnetism Magnetic materials, apparatus. Coils. Relays		—628.9
1	—537.6/.8; 669.018.58		621.32.543.42 Lamps for spectrum analysis
	Magnetic materials in general		:615.831 Phototherapy lamps
12	—537.622		Sunray lamps etc.
13	Hard magnetic materials	325	:687.053 Lamps on sewing machines
14	Soft magnetic materials		:771.44 Photographic lamps. Studio lights, flashbulbs etc.
14	Paramagnetic materials		621.32.032 Individual parts of electric lamps
2	Permanent magnets	326	<i>Details from 621.3.032...</i>
24	Magnetization. Devices for enhancing magnetization	.1	Carbon arc lamps Arc lamps with one carbon and one metal electrode
25	Demagnetization	5	—537.523.5
3	Electromagnets	.7	Incandescent lamps. Filament lamps
34	Magnetization methods	71	Carbon filament lamps
35	Heating. Devices for avoiding eddy currents etc.	72	Lamps with non-metallic incandescent elements (except carbon). With zirconia rods (Nernst lamps), tantalum carbide etc.
37	Electromagnets according to arrangements of poles. Solenoids etc.	.73	Lamps with metallic filaments
.38	Electromagnets according to purpose. Apparatus based on action of an electromagnet	.74	Vacuum general-purpose lamps (electric light bulbs)
	—621.86.062	.75	Gas-filled general purpose lamps (electric light bulbs)
	621.318.38:61 Electromagnets for medical applications	.76	Lamps with concentrated filaments. Spotlight lamps
4	Inductor coils	.77	Lamps with more than one cap, e.g. show window lamps
.43	—621.315.5; 621.315.61; 621.316.935	.327	Small, miniature lamps
	Inductors. Choking coils. Reactors.	.4	Lamps with variable illuminating power
	Transducers	.5	Economy lamps. Low consumption lamps
	—621.375.3		Discharge lamps. Discharge tubes
			Cold-cathode discharge lamps. Glow lamps.
			Fluorescent tubes (strip-lights), e.g. neon tubes
			Hot-cathode discharge lamps

621.327.52	With inert gas filling	621.337.5	Braking, deceleration devices. Electric and electromagnetic brakes
.53	With gas and metal vapour filling. Sodium vapour lamps. Mercury vapour lamps etc.		—62-592.3; 621.333.4
.6	Discharge lamps with luminous electrodes (no positive column)	.6	Devices for control of rail points, line points, signals, by the vehicle and by hand from the vehicle
.328	Compound lamps (blended-light lamps)		—625.151.6; 656.259.1
.33	Electric traction, locomotion, propulsion		Electrochemical technology
.331	Electrification for traction. Railway electrification	.35	—541.13; 66.087; 661.13
	621.331:625.31(44) Electrification of narrow-gauge railways in France		621.35.035 Individual parts for electrochemical equipment
			<i>Details from 621.3.035...</i>
.3	Choice of type of current	.351	Generation and storage of electric energy by electrochemical methods, in general
.4	Choice of voltage	.352	Generation of electric energy by electrochemical methods. Primary voltaic cells (galvanic cells) and batteries
.332	Supply lines. Distribution of energy		Methods and equipment for commissioning and servicing of cells and batteries for generation or storage of electricity
.2	Supply and return lines	.354	Storage of electricity by electrochemical methods. Accumulators. Secondary cells. Storage batteries (accumulator batteries)
.21	Feeders	.355	Lead (lead-acid) accumulators in general
.22	Special return lines	.5	Acid accumulators with electrodes of lead and another metal
.23	Use of track as return line (track-return lines)	.7	Acid accumulators with electrodes of metals other than lead
.3	Overhead lines. Line suspension	.8	Alkaline accumulators, e.g. nickel-iron (Edison accumulators)
.31	Contact wires. Trolley wires	.357	Industrial electrochemistry. Electrolysis. Electrodeposition
.32	Structure and form of contact wires		—66.087
.33	Line suspension	.1	Industrial electrolysis. Fusion electrolysis etc.
.34	Suspension wires and cables	.2	Industrial electrochemistry of inorganic compounds in general
.35	Connection of contact wires with suspension wires and cables	.3	Industrial electrochemistry of organic compounds in general
.4	Current supply methods other than overhead lines	5	Pretreatment for electroforming and electroplating
.41	Underground current collection. Conduit system : side slot, central slot	.6	Electroforming (galvanoplasty). Forming by electrodeposition
.42	Conductor-rail system	.7	—673.4
.43	Lines for transmission by electromagnetic induction	.8	Electroplating. Electroforming. Plating by electrodeposition
.5	Line crossings. Points. Signal devices for crossings and points		—621.793.3
.52	Line crossings without points	.8	Electrobrightening. Pickling. Colouring. Anodizing
.53	Points		—667.661.76
.6	Sectionalizing of lines. Length of sections. Switching of sections in and out of circuit	359	Industrial applications of electrocapillarity. Electroprecipitation
.8	Special devices on lines, suspensions etc. at bridges, crossings, viaducts, tunnels	2	—532.63; 537.361; 543.25; 66.087
333	Electric traction motors	3	Electroendosmosis (electro-osmosis)
	—621.313		—537.362
3	Special magnetic circuits. Connection of the motor circuits	4	Electric precipitation (electroprecipitation) from liquids. Processes involving electrophoresis (cataphoresis, anaphoresis)
4	Regeneration (recuperation) of electric energy (by braking, use of down gradients etc.)	4	—537.242; 537.363; 543.54
	—62-593; 620.97; 621.337.5	7	Electric precipitation (electroprecipitation) from gases. Cottrell process. Wet process
335	Electric locomotives. Electrically propelled vehicles		—537.2; 669.162.252
	—629.423		Colloidal dispersion by electric processes. Electrodialysis. Atomization
336	Current collection. Current-collecting devices and accessories		—66.044
2	Current collection. Contact pressure	36	Thermoelectricity. Electric heating
3	Contact-breaking	362	Generation of electricity by heat.
4	Current collectors for overhead lines. Bow, pantograph, trolley collectors. Collector shoes, rollers	1	Thermoelectric generators
5	Adjustability, movement, play in overhead current collectors. Flexible overhead collectors	2	Thermocouples
6	Bases of overhead current collectors	363	Thermopiles
7	Derailment of overhead current collectors		Thermoelectric motors. Thermomagnetic (magneto-caloric) motors
8	Prevention of derailment. Restoration of contact	365	Generation of heat by electricity. Electric heating
7	Current collectors for conductor rails		—666.1.031.5; 669.187.2; 669.712.3
8	Collector shoes		621.365:641.535 Electric heating in cooking equipment
337	Current collectors for underground, conduit system. Plough-type collectors		621.365.036 Individual parts of electric heating apparatus
1	Controls for electric locomotives and vehicles. Devices for activation by the vehicle of switching of points, changing of signals		<i>Details from 621.3.036..</i>
2	Control systems. Single-point, multi-point control		
3	Reversing switches. Controllers		
	—621.316.544		
4	Electrical connection between locomotives and carriages		
4	Devices for control of speed and direction		
	Reversing devices		

621 365 2	Generation of heat by electric arcs. Arc furnaces. Other arc heating apparatus —621.791.75	621 371 33	Propagation by indirect radiation with interposed reflection, refraction or diffraction
3	Direct resistance heating (current flowing through the material). Electrode heating apparatus. Electrode furnaces etc.	332	Propagation beyond the horizon
31	Direct resistance heating of solid materials 621.365.31:621.884 Electric rivet heaters	333	Propagation by indirect radiation with reflection due to atmospheric layers, meteorites, cosmic dust Reflection from objects, e.g. radar echoes Scattering
.32	Direct resistance heating of non-coherent particles, granular and pulverous materials, powders. Graphitizing furnaces etc.	334	Propagation by indirect radiation with refraction
33	Direct resistance heating of liquids.	336	Propagation by indirect radiation with diffraction
38	Glass-melting baths. Electrode boilers etc		Skip distances (zones of silence) Hop distances
.4	Direct resistance heating in small electrothermal apparatus	34	Propagation paths between two points on the earth and/or in the troposphere
.41	Indirect resistance heating (current flowing through a thermal transmitter or heating element). Resistance furnaces Electrothermal apparatus with heating elements	35	Propagation paths between two points, one or both situated outside the troposphere
	Indirect resistance heating via solid metallic resistors or elements	36	Propagation via intermediate links, e.g. satellites —621 396 94
	621.365.41:669.28 Molybdenum heating elements	37	Usability of frequencies
42	Indirect resistance heating via solid non-metallic resistors or elements	38	Prediction of usable frequencies for a radiocommunication link
.43	Indirect resistance heating via non-coherent particles, granular and pulverous heating elements. Slack coal furnaces etc.	39	Propagation through water, through the earth, through other media
.44	Indirect resistance heating via liquid heating elements. Salt bath electrode furnaces	372	Guided propagation of electric oscillations in general —537.876.4, 621.396 44, 621.396 65
46	Indirect resistance heating by directed infra-red radiation —621.384.3	2	Theory of transmission lines —621.3 09
	621.365.46:667.661 Infra-red heating devices for drying coatings, varnishes	21	Homogeneous lines. Continuously loaded circuits (Krarup circuits)
48	Indirect resistance heating in small electrothermal apparatus 621.365.48:644.19 Small domestic heating appliances with indirect resistance heating	.22	Non-homogeneous lines Coil-loaded circuits (Pupin circuits)
	Electric blankets etc	4	Two-terminal networks (dipoles)
5	Inductive and dielectric (capacitive) heating in an alternating field. Induction furnaces and apparatus. Dielectric heating apparatus	41	Passive dipoles with both capacitance and inductance, with or without resistance.
51	Production of magnetic field in closed iron core	43	Oscillation circuits
52	Production of magnetic field without iron core. High-frequency induction furnaces	44	Passive dipoles for impedance setting or matching. Matching stubs
53	Production of magnetic field with partial use of iron core	45	Non-linear passive dipoles
55	Heating using electrostatic field. Dielectric heating	5	Active dipoles
58	Inductive and dielectric heating in small electrothermal apparatus	51	Four-terminal networks (quadrupoles)
6	Mixed electric heating Electric combined with other heating	52	Transducing, matching quadrupoles Coupled circuits
9	Other methods of electric heating. Cathode-ray furnaces etc.	.52	Quadrupoles in feedback circuits —621 373.421, 621.375.13
37	Technique of electric waves, electromagnetic waves, oscillations, pulses 621.37.037 Special features of electrical oscillation technique	53	Quadrupoles in push-pull circuits
	<i>Details from 621.3.037...</i>	54	Quadrupole frequency filters
371	Unguided propagation of electromagnetic waves in free space, in interplanetary space or through various media —537.86/.87; 621.391.812; 621.396 94	.542	Filters with one cut-off frequency Low-pass, high-pass and separating filters
3	Propagation between specified locations. Propagation paths. Usability of frequencies	.543	Filters with two cut-off frequencies.
	Prediction of usable frequencies for a radiocommunication link	.544	Band-pass and band-stop filters
.31	Free space paths. Mixed propagation paths (e.g. signals originating below an ionized layer and subsequently passing through free space)	.55	Filters with more than two cut-off frequencies. Filters with several pass-bands or band-stops
.32	Propagation by direct radiation. Propagation by surface wave (Zenneck wave)	.56	Distortion-correcting quadrupoles
		.57	Attenuation and delay equalizers Phase compensators
		56	Quadrupole attenuators
		57	Active quadrupoles —621.375
		58	Gyrators
		.6	Multipoles
		62	Passive multipoles. Mixers
		63	Active multipoles. Frequency changers —621.314.26; 621.374.4
		.8	Waveguides 621 372.8:621.315.61 Dielectric waveguides
		81	Generalities. Reflection in waveguides. Standing wave ratio. Matching of waveguides
		82	Kinds of waveguide and wavemode. Parallel-plate (stripline) waveguides. Rectangular, elliptical, circular waveguides. Coaxial waveguides. Corrugated, ridge waveguides. Surface waveguides
		.83	Coupling of waveguides
		.831	Coupling of two waveguides

621.372.832	Multiterminal couplings	621.375.4	Amplifiers with electronic solid-state components. Semiconductor amplifiers.
.833	Coupling between waveguides and other transmission systems		Diode amplifiers. Transistor amplifiers —681.382.3
.834	Coupling between cavities and waveguides	.5	Dielectric amplifiers
.837	Waveguide switches	.6	Electromechanical amplifiers
.85	Obstacles. Loaded waveguides. Waveguide filters	.7	Parametric amplifiers
.851	Infinitely thin obstacles (obstacles of zero thickness). Irises	.8	Quantum-mechanical amplifiers
.852	Obstacles of finite thickness. Waveguide filters	.82	Molecular amplifiers. Masers
.1	Filters	.823	Masers for amplifying electrical oscillations
.2	Phase changers (phase shifters). Squeeze sections	.826	Optical masers. Lasers
.3	Attenuators	.376	Modulation and demodulation. Processes and apparatus
.4	Polarizers		<i>Class here particular modulators and demodulators not enumerated below, e.g. ring modulators</i>
.5	Mode transformers. Mode filters	.2	Amplitude modulation and demodulation
.6	Impedance transformers. Tuning posts, slug tuners etc.	.22	Amplitude modulators (double-sideband)
.853	Composite structures. Loaded waveguides	.23	Amplitude demodulators (double-sideband). AM detectors
.855	Waveguide terminations	.24	Single-sideband systems
.862	Input sections	.25	Mixed, vestigial-sideband systems
.863	Output sections	.3	Frequency modulation and demodulation
.865	Measuring sections	.32	Frequency modulators
.867	Delay sections	.33	Frequency demodulators. FM detectors
.88	Composite arrangement	.4	Phase modulation and demodulation
.373	Generators of electric oscillations and pulses. Oscillators. Pulse generators	.5	Pulse modulation and demodulation
.1	Oscillators generally (irrespective of active element)	.6	Combined modulation systems
.3	Non-electronic oscillators. Electromechanical oscillators. Spark and arc oscillators	.377	Delay devices. Electric information storage devices (stores)
.4	Thermionic valve oscillators. Gas discharge tube oscillators		621.377.037.3 Type and representation of information in storage devices
.42	Sinusoidal-wave valve oscillators		.7 Details of electric pulse storage devices
.421	Feedback oscillators —621.372.52	.2	Delay devices
.422	Negative-resistance oscillators. Dynatrons. Transitrons	.4	Analog stores
.423	Transit-time oscillators	.6	Digital stores, registers, storage devices
.424	Heterodyne oscillators	.62	Digital stores for variable data
.43	Non-sinusoidal-wave valve oscillators	.622	With separate information storage for separate information elements (one element per bit). With bistable, multistable devices etc.
.431	Hard-valve circuits		.623 With common storage medium for a number of information elements spatially confined to a discrete surface of the medium. Magnetic tapes, wires, drums, discs, cards. Cathode-ray tube stores etc.
.1	Multivibrators		.624 With storage medium in which the information elements are propagated Using mechanical, acoustic, electromagnetic waves.
.2	Blocking oscillators. Squeggers		Magnetic spin-echo stores
.3	Feedback gating circuits	.626	Chemical information stores
.4	Relaxation transitrons	.63	Read-only stores (dead storage), e.g. card, tape
.432	Soft-valve circuits		Electronic devices. Electron tubes. Photocells. Particle accelerators. X-ray tubes
.44	Triggered pulse generators (valve type)		621.38.032 Individual parts of electronic devices, solid-state devices, semiconductor devices
.5	Oscillators using semiconductor elements —621.382		.038 6 Features and parts of electronic devices, for the production of active rays and corpuscular beams
	621.373.5:621.382.2 Oscillators using semiconductor diodes		
	621.382.3 Oscillators using transistors		
	621.373.5 = 621.373.4, e.g.	38	
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	54 Pulse oscillators using semiconductor elements		
.7	Parametric oscillators	382	Electronic devices using solid-state effects. Semiconductor devices
.8	Quantum-mechanical oscillators		—537.311.322; 621.315.59
374	621.373.8 = 621.375.8	.2	Crystal diodes
	Pulse processes. Frequency multipliers and dividers	.22	Point-contact diodes
.3	Pulse-operated circuits	.23	Junction diodes
.4	Frequency multiplying and dividing circuits —621.314.26/27; 621.372.63	.232	With one p-n junction
.5	Pulse-delay circuits	.233	With more than one p-n junction, e.g. four-layer diodes
375	Amplifiers —681.583	.3	Transistors
	621.375.621.317 Amplifiers for electrical measurement	.32	Unipolar transistors (utilizing charge carriers of only one polarity)
.1	621.397 Television amplifiers	.322	Analog transistors (control by pinch effect)
.13	Amplifiers in general. Theory and properties	.323	Field-effect transistors (control by external fields)
	Feedback amplifiers —621.372.52		
.2	Thermionic valve amplifiers		
.3	Magnetic amplifiers (transducer amplifiers)		

621.382.33	Bipolar transistors (using both types of charge carrier with carrier injection)	621.384.66	Auxiliary equipment and accessories for particle accelerators
332	Transistors with barrier layers (without intrinsic p-n junctions)	8	Particle separators. Mass spectrographs
2	Point-contact transistors	.385	Mass spectrometers
.3	Surface-barrier transistors		Apparatus employing electron discharges.
9	Other transistors with barrier layers (e.g. filamentary transistors)		Electron tubes. Thermionic vacuum tubes (thermionic valves)
333	Junction transistors (with intrinsic p-n junctions)		—621.314.67; 621.318.57; 621.327.4
3	Transistor triodes	1	621.385.032 Individual parts of electron tubes
32	With one p-n junction (e.g. double-base triodes)		General principles and characteristics of electron tubes
33	With two p-n junctions (e.g. drift transistors)	2	Diodes (two-electrode tubes)
.34	With more than two p-n junctions	3	Triodes (three-electrode tubes)
334	Transistors with various kinds of contact (e.g. having simultaneously junction and point contacts. Spacitors)	.44	Tetrodes (four-electrode tubes)
383	Photoelectric tubes and cells	5	Electron tubes with more than four electrodes
	—535.215; 535.247	.55	Pentodes (five-electrode tubes)
2	Photoelectric tubes. Photomultiplier tubes	56	Hexodes (six-electrode tubes)
	Photoemissive cells	57	Heptodes (seven-electrode tubes)
4	Photoconductive cells	58	Octodes (eight-electrode tubes)
	—537.312.5	59	Nonodes (nine-electrode tubes). Electron tubes with more than nine electrodes
5	Barrier-layer photocells. Photovoltaic cells	6	Velocity-modulation tubes. Klystrons
	Photodiodes. Phototransistors		Travelling-wave tubes. Magnetrons and other microwave tubes which depend on transit time
6	Karolus cells. Kerr cells	.62	Tubes controlled by a stationary field
8	Image converters employing the photoelectric effect	.63	Retarding-field tubes. Resonator tubes
.384	Production and application of active rays and corpuscular beams		Tubes controlled by a travelling field
	—621.039	.64	Forward-wave tubes. Electron-wave tubes
2	Technical application of radioactive materials	.65	Backward-wave tubes. Carcinotrons
3	Technical application of infra-red rays		Magnetrons
4	Technical application of ultraviolet rays		Tubes with static crossfield 'Magnetless'
5	Technical application of glow discharges	82	magnetrons (Versnel-type magnetrons)
6	Particle accelerators		Tubes for production of positive rays (anode rays, canal rays)
	—539.1.076; 621.039.5; 621.386.2	83	Tubes with controlled electron beam
63	Circular accelerators	831	Electron multipliers
633	Fixed-field accelerators. Cyclotrons in general	832	Tubes with directional and/or intensity beam control. Cathode-ray tubes
3	Weak-focusing constant-frequency cyclotrons	2	Electromagnetic type of deflection
.4	Weak-focusing frequency-modulated cyclotrons	4	Electrostatic type of deflection
.5/ 6	Strong-focusing fixed-field accelerators	5	Image tubes employing photoelectric effect.
	Fixed-field alternating-gradient (FFAG) accelerators. Azimuthally-varying-field (AFV) accelerators (including intersecting-beam accelerators, beam-stacking techniques)	.8	Camera tubes. Iconoscopes. Orthicons etc
.8	Microtrons		Special kinds of cathode-ray tube. Storage tubes (e.g. grappecons). Beam-switch tubes
.9	Other fixed-field accelerators and cyclotrons	833	Frequency-multiplying tubes. Cathode-ray counter tubes (e.g. Alfvén counters, trochotrons)
634	Varying-field accelerators. Synchrotrons in general		Electron microscopes. Diffraction cameras
3	Betatrions	.834	—537.533.35; 778.317
4	Constant-gradient or weak-focusing synchrotrons	386	Tuning-indicator tubes (magic eyes)
5	Alternating-gradient or strong-focusing synchrotrons		X-ray apparatus (Roentgen apparatus). X-ray tubes
.9	Other types of synchrotron (e.g. zero-gradient synchrotrons)		—535-34; 539.26, 548.73, 615.849, 616-001.26; 616-073; 620.179.152; 66.035.3, 778.33
637	Circular accelerators using plasma as focusing or accelerating medium	1	621.386.032 Individual parts of X-ray apparatus
.64	Linear accelerators (using high-frequency alternating accelerating fields)	12	X-ray apparatus in general
643	Linear accelerators using discontinuous acceleration (drift tubes)	16	Universal apparatus
.644	Linear accelerators using continuous acceleration. Waveguides. Helical accelerating structures	.17	Apparatus for stereoradioscopy.
647	Linear accelerators using plasma as focusing or accelerating medium	.2	stereoradiography, stereoradiogrammetry
.65	Accelerators using steady or low-frequency accelerating fields		Apparatus for cineradiography
.653	Accelerators using electrostatic machines (e.g. using Van de Graaff generators)		X-ray tubes
.654	Cascade-rectified accelerators (e.g. Cockcroft-Walton accelerators)		621.386.2:620.179.152 X-ray tubes for industrial radiography
.658	High-voltage transformer accelerators (e.g. resonant transformer types)	7	Handling and use of X-ray tubes
		8	X-ray apparatus other than tubes.
			Radiochronometers. Dosimeters (dosimeters). Radioscopic and radiographic accessories. Fluorescent screens. Intensifying screens etc.
			621.386.8-784.7 Protection from radiation from X-ray apparatus
			—614.89

621.387	Gas-filled and vapour-filled discharge tubes (except for lighting). Ionization chambers. Ion counters —621.327; 621.383	621.391.821	Interference due to atmospherics. Natural electric interference, e.g. lightning
.1	Discharge tubes with hot cathode (thermionic cathode)	.822	Interference due to noise
.12	Without means of controlling current flow. Gas-filled diodes, e.g. Phanotrons. Hot-cathode rectifiers, e.g. Tungar rectifiers, rectigons	.2	Thermal noise
.13	With one or more electrodes to provide electrostatic control. Gas-filled triodes, e.g. hot-cathode thyatrons, tacitrons	.3	Shot noise (partition, flicker effect etc.)
.14	With other means of controlling current flow, e.g. magnetic (permatrons), by current (plasmotrons)	.4	Intermodulation noise
.2	Discharge tubes with pool-type cathode (liquid or solid)	.823	Interference due to electric power systems and apparatus. Industrial interference
.22	Without means of controlling current flow. Arc-discharge pool tubes, e.g. mercury-pool devices	.825	Man-made interference (accidental)
.23	With grid control. Grid-pool tubes. Excitrons	.826	Deliberate interference. Jamming
.24	With igniter electrode to control the starting of the unidirectional current flow in each operative cycle. Ignitrons	.827	Echoes and deviations
.3	Discharge tubes with cold cathode (except radiation counters). Electrodeless discharge tubes —621.387.4	.83	Crosstalk interference. Intermodulation hum
.32	Without means of controlling current flow. Gas-filled glow tubes	.832	Fidelity. Distortion
.33	With control electrode. Grid-glow tubes. Cold-cathode arc-discharge tubes. Trigger tubes. Cold-cathode thyatrons	.833	Distortion of continuously varying signals. Linear and non-linear distortion
34	Multi-electrode types. Stepping tubes (scaling tubes). Dekatrons	.837	Distortion of discontinuously varying signals, e.g. pulses. Characteristic, bias and fortuitous distortion
35	With external magnetic field. Penning gauges (cold-cathode ionization gauges)	.84	Picture quality as affected by transmitting or receiving transducers. Picture resolution. Ghosting. Geometric distortion. Brightness. Contrast. Dynamic effects. Interference patterns etc.
36	Electrodeless discharge tubes. Radio-frequency indicators. Transmit-receive switches (TR switches, switching tubes)	88	621.391.837:621.397.13 Television picture quality
4	Radiation counters (ionization counters) Counter tubes	.883	Selectivity
42	Gas-filled counter tubes. Ionization chambers. Geiger-Müller counters (Geiger counters). Neutron counters	.394	Readability. Mutilation. Margin, e.g. in telegraphy
44	Liquid counter tubes	12	Quality figures. Signal-to-noise ratio etc.
46	Solid counter tubes. Crystal counters	13	Telegraphy —654.14
389	Other electronic apparatus and instruments	14	Telegraph systems with indicating receivers
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391	General questions of electrical communication engineering. Cybernetics. Information theory. Signal theory <i>only in relation to electrical communication</i> —007	.34	Telegraph codes, e.g. Morse, binary, pulse codes
1	Comparison of various systems —621.394 13, 621 396 1	.4	Measures against mutilation of signals
3	Transmission of electric signals by conduction —621 315, 621 372	.41	Telegraph switching systems
5	Transmission of electric signals by induction	.42	Subscriber telegraph switching systems
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81	Propagation conditions. Signal strength	52	Systems with division by direction and amplitude. Duplex, diplex, quadruplex telegraphy
812	Variations of signal strength due to free-space phenomena. Fading. Fluctuation, periodic, cosmic, atmospheric effects —621 396 666	.54	Frequency-division multiplex (carrier telegraph)
814	Variations of signal strength due to guided transmission. Changes in transmission characteristics	.6	Simultaneous use of lines with other parties
.816	Variations of signal strength due to terminal and/or intermediate equipment	61	Telegraph transmission
82	Interference. Static	.614	Direct-current telegraphy
		.62	Alternating-current telegraphy
		.623	Telegraph apparatus
		.624	Telegraph transmitters (senders)
		.625	Transmitters with typewriter keyboard
		1	Teleprinters as transmitters
		2	Telegraph receivers
		3	Acoustic receivers. Sounders. Headphones
		4	Visual receivers (non-recording). Needle type
		.63	Mirror galvanometers. ABC dials
		.64	Recording receivers
		.642	Recording in code (except perforating). Ink, photographic, electric, magnetic recording
		.643	Recording by perforating. Punched-tape receivers
		.646	Recording by direct printing. Teleprinters as recorders. Ticker-tape machines etc.
		.65	Receiving mechanisms. Orientation devices
			Alarm devices responding to specific codes or code sequences. SOS receivers etc.
			Telegraphic signalling and calling apparatus
			Telegraph repeaters
			Telegraph repeaters with solid moving parts, e.g. contact type, thermal type
			Liquid-jet telegraph repeaters
			Regenerative telegraph repeaters
			Telegraph distributing apparatus. Telegraph switches

621.394.66	Telegraph regulating apparatus.	621.395.642	Telephone repeaters with solid moving parts, e.g. repeater transmission, transmission by rotary mechanism
.67	Synchronization apparatus, e.g. phonic wheel	.643	Liquid-jet telephone repeaters
.7	Telegraph code-changing apparatus. Code convertors	.65	Telephone switching apparatus. Telephone switchboards
.72	Telegraph installations and networks	.652	Press-button switches
.73	Telegraph stations. Telegraph offices	.655	Jack-and-plug switches. Key switches
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.76	Telegraph exchanges. Connection installations. Telegraph switchboards	.663	Call-counters, meters. Prepayment apparatus —621.395.36; 681.118.1; 681.13
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.395	Telephony	.664	Supervisory equipment. Regulating apparatus. Echo and reaction suppressors
	—654.15	.665	Band-width regulators. Amplitude limiters etc.
.12	Telephone circuit functions. Hunting. Engaged testing. Switching. Metering etc	.666	Telephone volume control. Contrast expanders or compressors (companders)
.2	Private telephone systems, with or without connection to the public exchange	.667	Time switches to limit call duration. Prevention of re-operation. Delayed release
.3	Public telephone systems	.669	Telephone tone control
.31	Telephone traffic studies. Provision of circuits and switches to carry traffic. Trunking and grading		Protective devices. Coherers. Telephone interference suppressors etc
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.32	Systems without exchange	.72	Telephone installations
.33	Systems with manual exchange		Telephone stations. Domestic telephones, handsets. Call boxes (telephone booths).
.34	Systems with automatic exchange	.73	Telephone exchanges. Telephone repeater stations
.35	Semi-automatic telephony		—621.395.64
.36	Metering methods	.74	Telephone lines
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.38	Signalling and pulsing		Applications of telephony
.4	Multiple telephony	.97	—651.458; 654.1; 656.254; 658.842
.42	Duplex telephony	.396	Automatic information services by telephone. Time check (speaking clock), weather reports etc.
.43	Multiplex telephony. Phantom circuits		Broadcasting by telephone (programme transmission over lines)
.44	Carrier telephony		Radiocommunication apparatus and methods (radio)
.49	Simultaneous telephony and telegraphy		—621.37; 654.177.19
	—621.394.4		621.396.029 Frequency and wavelength ranges for radiocommunication
.5	Long-distance telephony by cable	.1	Generalities. Early experiments, e.g. by H R Hertz. Comparison of various radio systems
.6	Telephone apparatus	.2	Transmission systems according to type of wave
.61	Telephone transmitters. Microphones	.21	Systems using damped waves or modulated waves. Telephonic radio systems
	<i>Class here information about both transmitters and receivers</i>	.22	Systems using continuous waves
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	—621.395.62	.4	Multiple radio transmission. Directional radio transmission
.613	Microphones with variable impedance. Liquid-resistance microphones. Contact-resistance microphones. Carbon microphones. Microphones with metallic contact resistance. Push-pull microphones	.41	Duplex, diplex, multiplex radio transmission
.614	Piezoelectric microphones. Crystal microphones	.42	Transmission by switching the frequency
.616	Electrostatic microphones. Capacitor microphones (condenser microphones)	.43	Transmission by directed waves
.62	Telephone receivers	.44	Transmission by radio-frequency waves using existing conductor (provided for other purposes). Wired radio
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.623	Acoustic receivers. Headphones. Earphones. Loudspeakers	.61	Radiocommunication apparatus and circuits
.625	Recording telephone receivers	.62	Radio transmitters
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.63	Telephone calling apparatus	.623	Radio receivers
.631	Calling apparatus at the sending end. Call-buttons. Push-buttons		<i>Class information about both transmitters and receivers at 621.396.61</i>
.632	Calling apparatus at the receiving end. Telephone bells, buzzers, warblers. Visual telephone signals, indicator lights etc.		Radio receivers with acoustic output
.633	Accessories for calling apparatus. Indicators of termination of a call. Tone tests		
.634	Devices for calling intermediate stations		
.635	Devices for selective calling. Long-distance selection by the subscriber		
.636	Calling apparatus for automatic systems. Call selecting arrangements. Dials etc.		
.64	Telephone repeaters		
	—621.395.72		

621.396.624	Radio receivers with optical output	621.396.969.3	Detection and location of objects (vehicles, craft, projectiles, obstacles etc.)
.625	Recording radio receivers		Sound broadcasting (technology)
.63	Radio calling apparatus	.97	—621.396.71; for non-technical aspects — 654.195
.65	Apparatus for connecting radio systems with wired communication systems	.397	Picture transmission. Television
	—621.372		—654.17/.19
.66	Apparatus for control, regulation, protection	.12	Facsimile transmission. Phototelegraphy.
	—621.3.07		Radiophoto
.662	Radio tuning and regulating apparatus	.121	Monochrome facsimile (black-and-white facsimile). Transmission of single monochrome pictures
.663	Radiogoniometers. Radiocompasses		Colour facsimile. Transmission of single polychrome pictures
.664	Supervisory, monitoring apparatus	.122	621.397.122 $\approx$ 621.397.132
.665	Radio volume control. Automatic gain control		Television
.666	Anti-fading devices. Regulation of amplification related to carrier wave	.13	Monochrome television (black-and-white television)
	—621.391.812	.131	Colour television
.667	Radio tone control		Simultaneous colour systems
.669	Protective devices and circuits. Radio interference suppressors etc.	.132	With separate transmission channels for the primary colour signals
	—621.316.9	.1	With common transmission channel for the primary colour signals
.67	Aerials. Radio antennas. Earth systems	.11	NTSC system (US National Television Systems Committee)
	—621.315.24; 624.97	.12	PAL (Phase Alternating Line) system
.673	Unbalanced aerials. Aerials with earth or counterpoise	.121	With line-sequential transmission. SECAM (Sequential And Memory) system
.674	Balanced aerials. Dipoles and frame aerials (loop aerials) without intentional directivity	.125	Sequential colour systems. Field-sequential, line-sequential, dot-sequential etc.
.676	Special aerials for land vehicles, watercraft, aircraft	.127	System conversion
.677	Directive aerials. Aerials with intentional directivity	.2	Transmission types
.3	Beam aerials. Aerial arrays	.5	Modulation methods
.4	Long-wire aerials (harmonic aerials). Wave aerials (Beverage aerials), e.g. helical aerials	.22	Transmission methods
.5	Frame aerials (loop aerials) with intentional directivity. Direction-finding loops	.23	Conversion to other television standards
.6	Adcock aerials	.27	—621.397.63
.7	Waveguide and cavity radiators	.3	Analysis and reproduction of image.
.8	Parasitic aerials. Secondary elements. Reflectors and directors. Mirrors. Lenses. Radomes (aerial housings)	31	Scanning
.678	Improvised, makeshift aerials	33	Simultaneous analysis of all picture elements
.679	Earth plates. Counterpoises	.331	Successive analysis of picture elements
.7	Radio stations. Transmitting and receiving stations		Image conversion and reconstitution. Picture signal generation
71	Large stations. Broadcasting stations, studios	.1	—621.391.837
72	Small stations. Amateur radio stations		With mechanical control of light beam.
73	Portable radio equipment		Optomechanical methods. Nipkow discs.
74	Radio broadcasting networks		Mirror drums. Lensed discs. Prisms. Drum and traversing spots
75	Radiogoniometric stations. Direction-finding radio stations	.2	With electric control of light beam.
9	Special radio apparatus and methods. Radar		Optoelectronic methods. Photoelectric image analysis. Cathode-ray tubes (picture tubes)
91	Radio information services. Time signal, weather reports etc.	.3	Intermediate film methods
93	Radiocommunication with land vehicles, watercraft, aircraft. Bearing signals. Radio beacons. Ground control etc.	.5	Non-optical methods. Electromechanical, electrochemical, electrothermal methods
94	Radiocommunication through free space, through interplanetary space, through various media. Underwater, submarine radio. Underground, subterranean radio	332	Monochrome scanning techniques
96	Radar (radiolocation)	.1	Linear: sequential (line-by-line), interlaced
962	Radar systems according to type of wave	.2	Non-linear: sequential, interlaced
2	Continuous-wave radar	334	Colour scanning techniques
3	Radar by pulse-modulated wave	335	621.397.334 $\approx$ 621.397.332
963	Methods of radar information display	.1	Synchronization methods
	Automatic response	2	Of frame
3	Optical display. Cathode-ray tube display	6	Of line
4	Meter display	61	Television apparatus
5	Acoustic, audio indication	62	Television transmitters. Television recording devices
8	Automatic response systems	63	Television receivers, reproducers
965	Aerial scanning pattern		621.397.62-681.775 Projecting television receivers
2	Continuous scanning. Zone scanning	.65	Equipment for conversion to other television standards
4	Sector scanning		—621.397.27
8	Automatic following		Equipment for conversion between different colour systems, e.g. PAL/SECAM.
.967	Radar stations	.7	Transcoders
.2	Radar networks. Grouping of radar stations		Installations for facsimile and television.
969	Applications of radar		Phototelegraphy and radiophoto transmitting and receiving stations. Television stations, studios etc.
1	Ascertaining range, azimuth (bearing), elevation (altitude), velocity		621.397.7 $\approx$ 621.396.7, e.g.

621.397.7 (cont'd)	621.397.74 Facsimile and television networks	621.43.018.8	Devices for measuring efficiency, power output. Brake dynamometers. Indicators —531.78
.398	Telecontrol (remote control). Telemetering. Remote indication —654.9 and references there	.019	Chemical and physicochemical principles. Combustion
	621.398:621.316 Remote control of power networks and switching	.2	The explosive mixture. Combustibility. Air requirement Limits of reaction. Coefficients —541.12
	:623.36 Remote mine-seeking devices	.4	Explosion (detonation) process
	:654.924 Remote alarm systems	.6	Constant-pressure combustion process
	:654.93 Devices for teletransmission of orders, signals	.7	Deposits on cylinder wall etc.
	:656.1.05 Devices for remote road-traffic regulation. Remote control of traffic signals	.8	Premature ignition (pre-ignition) Knock. Delayed ignition (ignition lag). Knock resistance Octane number etc —621.43.047, 621.43.057
	:656.257 Remote control of rail signals and points	.9	Combustion products. Exhaust gases
	:681.116 Remote control of clock systems	.03	Vaporization, carburation and mixture-forming devices —662.948.3
			621.43.03-6 Kind of fuel
			Details from 62-6
621.4	HEAT ENGINES (EXCEPT STEAM ENGINES) —621.1; 662.6/9	.031	Devices for induction and compression of the gaseous charge. Compressors. Gas pumps
Special auxiliary subdivisions		.032	Devices for conducting liquid fuel between reservoir (fuel tank) and carburettor. Fuel pumps
621.4-1/-3	Characteristics of heat engines	.033	Spray carburettors (atomizing carburettors). Carburettors generally
+ -5/-9	Details from 62-1/-3 and -5/-9 (-4 is not applicable here)	.036	Preheaters and vaporizers for less volatile liquid fuels
Principal division		.037	Devices for vaporization or atomization by pressure. Pressure carburettors
621.41	Hot-air engines (aerothermal engines)	.038	Fuel injection devices, especially for diesel and semi-diesel engines
Special auxiliary subdivision		.8	Injector nozzles
621.41.01	Theory of hot-air engines 621.41.01 ≈ 621.43.01	.039	Devices for conveying and introducing solid fuels
Principal divisions		.04	Ignition processes. Ignition devices
621.412	Engines with alternate heating and cooling of air. Closed-cycle hot-air engines (e.g. Ericsson, Stirling engines)	.043	Non-electric ignition. Flame, incandescent, friction ignition etc.
.413	Engines with alternate induction and exhaust of hot air or gas. Open-cycle hot-air (or hot-gas) engines	.044	Electric ignition generally —621.3.032.4
.415	Auxiliary equipment for hot-air engines. Air pumps, furnaces, heating devices etc.	.2	Magneto ignition. Magnetos
.43	Internal combustion engines. Explosive combustion engines	.3	Ignition by induction coil. Ignition by capacitor
Special auxiliary subdivisions		.5	Ignition by low-voltage interrupter
621.43-4	Fuel intake. Formation of mixture. Carburation	.6	Dynamo-electric ignition. Dynamos
-41	Intake of fuel and additives in liquid-fuel engines generally	.7	Ignition by battery. Ignition batteries, accumulators
-42	Mechanical injection (solid injection), with atomization by internal pressure	.9	Other electric ignition methods.
-43	Pneumatic injection, with atomization by external pressure	.045	High-frequency ignition systems
-44	Fuel intake, supply. Mixture formation and control. Choking, throttling	.6	Electric igniter plugs. Spark plugs
-46	Carburettor parts. Carburettor valves. Spray nozzles. Mixing chambers	.046	Glow plugs
621.43.01	Theory of internal combustion engines	.047	Spark plug accessories. Insulation, terminals etc.
.013	Matters relating to fluids (liquids, gases, vapours)	.4	Testing devices for spark plugs
.1	Scavenging process —621.43.058	.048	Switching and regulation of ignition. Advance or retard mechanism
.2	Induction	.05	Contact-breaking devices. Distributors. Interrupters
.3	Vaporization	.052	Processes and devices affecting combustion and explosion
.4	Atomization. Dispersion	.053	Charging and additional charge, to improve engine performance. Supercharging
.6	Swirl. Turbulence	.054	Devices in two-stroke engines, for improving combustion
.7	Compression	.055	Compression of charge. Compression ratio
.9	Expansion. Exhaustion. Residue	.056	Means and devices for improving the conversion of heat into work during combustion and expansion, e.g. prolonged expansion, compounding
.016	Matters relating to heat theory, thermodynamics. Temperatures. Heat transfer. Heat loss	.057	Constructional features for improving combustion
.018	Efficiency. Power	.3	Chemical or physicochemical means for improving combustion
.2	Mechanical efficiency	.5	Addition of water or steam to the mixture
.3	Thermal efficiency from point of view of fuel consumption	.058	Chemical additives, e.g. to prevent knocking
.4	Thermodynamic efficiency		Evacuation of combustion residues.
.7	Power output units. Brake horsepower. Altitude performance. Indicated horsepower		Discharging. Scavenging. Exhaustion —621.43.013.1; 621.43.013.9

621.43.06	Exhaust devices	621.437.4	With double or multiple rotary pistons engaging as cogwheels
.062	Discharge to atmosphere via silencer.	.5	With screw-shaped or helicoidal rotors
	Exhaust flap valves	.6	With semi-rotary or oscillating rotors
.063	Discharge by extraction, in rotary cylinders	.438	Combustion turbines. Gas turbines. Oil turbines
.065	Exhaust boxes. Silencers		Special auxiliary subdivisions
.066	Auxiliary devices. Exhaust pipes, valves, pumps	621.438.081	Turbines with closed combustion chamber. Constant-volume turbines
.068	Treatment, utilization of exhaust gases	.082	Turbines with open combustion chamber
.1	Recuperation of thermal energy	.083	Mixed, compound system. Half-closed cycle
.2	Recuperation of mechanical, kinetic energy		Principal divisions
.4	Cleaning, filtering, purification of exhaust gas (control of emissions)	621.438.1	Impulse turbines
Principal divisions		.2	Reaction turbines
621.432	Reciprocating internal combustion engines generally. I/c piston engines	.4	Frictional turbines. Screw turbines (helicoidal turbines)
.2	Atmospheric engines	.44	Engines using air-and-steam mixtures or other vapours, acting by expansion
.3	Four-stroke engines in general	.45	Jet engines
.4	Two-stroke engines in general		—629.7.036; 629.76; 662.75
.6	Six-stroke engines in general		Special auxiliary subdivisions
433	Reciprocating gas engines	621.45.01	Design fundamentals. Calculations. Tests
.2	Four-stroke gas engines	.02	Operating processes in engines. Effect of various factors
.3	Two-stroke gas engines	.03	Structure. Structural elements
.6	Six-stroke gas engines	.04	Fuel delivery systems. Propellant ignition methods
.434	Reciprocating carburettor engines. Volatile liquid-fuel engines. Petrol engines. Otto engines	.05	Thrust control systems
.12	Four-stroke carburettor engines	.052	Thrust cut-off (engine cut-off). Blowdown
.13	Two-stroke carburettor engines	.053	Thrust control methods and devices
.16	Six-stroke carburettor engines	.054	Thrust orientation control (thrust vector control)
.4	Carburettor motors with mixture formation in the cylinder	.07	Types of jet engine according to function, layout etc. Sustainers. Boosters (ascent engines). Starters etc.
.435	Reciprocating engines using solid fuels or explosive powders		Principal divisions
.1	Coal-dust engines	621.452	Aerojet engines. Hydrojet engines. Ramjets.
.3	Other solid-fuel reciprocating engines	453	Aeropulse engines. Turbojets. Turboprops
.4	Reciprocating engines using mixtures of solid and liquid fuels	454	Rocket engines with compressed gas, air, water vapour (without chemical reaction)
8	Reciprocating engines using explosive-based mixtures	455	Chemical rockets
.436	Reciprocating oil-combustion engines. Heavy liquid-fuel engines. Diesel, diesel type, semi-diesel engines	456	Electric rocket engines. Electrothermal, electrostatic, electrodynamic rockets (Plasma jets. Magnetohydrodynamic rockets)
.1	Diesel engines in the strict sense		Nuclear reaction rocket engines. Atomic, thermonuclear rocket engines
.12	Four-stroke diesel engines		—621.039.5/ 6
.13	Two-stroke diesel engines	457	Photon engines
.16	Six-stroke diesel engines	.47	Engines using radiant energy
2	Diesel-type engines. Semi-diesel engines	.472	Engines using solar radiation, sunlight
.21	With simplified compressor forming part of the cylinder, and blast air taken from atmosphere or working cylinder. Pneumatic injection (air blast) in general	.48	—662.997
22	With blast-air reservoir forming part of the injection and compressed air taken from the cylinder	.482	Other kinds of heat engine
24	With blast air replaced by exhaust gas, steam etc.	.483	—620.91
25	Mechanical injection (solid or airless injection) Pressure atomization	484	Production of dynamic force from geothermal energy (natural terrestrial heat)
3	Diesel-type engines with pre-combustion chamber, with high or medium compression and moderately warm chamber wall	.486	Production of dynamic force from hydrothermal energy (natural heat of water)
4	Diesel-type engines with pre-combustion chamber, with medium or low compression and ignition by incandescent element (glow-plug etc.)	499	Production of dynamic force from aerothermal energy (natural heat of atmosphere)
7	Oil engines of special design		Production of dynamic force from changes of volume in liquids and solids
72	Oil engines with mixture compression and auto-ignition in the cylinder	2	Direct use of various forms of chemical and physicochemical energy for engines
73	Oil engines with compression of air-charge, and separate ignition arrangement	.3	—620.93
74	Oil engines with features of both carburettor and diesel systems	4	Utilization of capillary energy
75	Diesel-type engines with air compression outside the cylinder. Compressed-air internal combustion engines		Direct utilization of nuclear energy for engines
437	Internal combustion engines with rotary or semi-rotary pistons etc. Wankel engines etc.	621.5	—621.039
2	With uniformly rotating piston		Use of other forms of chemical and physicochemical energy
3	With variably or intermittently rotating piston	621.5.01	Special auxiliary subdivisions
			Compression and rarefaction of air and other gases, in general. Theory. Cyclic processes
			—533; 536.7

621.5.011	Technical and economic aspects.	621.548	Utilization of natural air energy. Wind power machines. Wind-wheels (for windmills, wind-pumps etc.) Wind turbines. Machines using Magnus effect (Flettner rotors)
.012	Refrigerating capacity. Efficiency		
.013	Compression cycle (evaporation, compression, condensation, expansion)	.56	Refrigeration in general. Production of low temperatures
.02	Absorption cycle (absorption, desorption, liquefaction)		—62-71; 62-9 (and 66-973/-974)
	Air. Vapour. Gases	.564	Properties and preparation of refrigerants, coolants
	621.5.02 $\approx$ 621.6.02		Primary refrigerants. Sulphur dioxide. Ammonia. Carbon dioxide etc.
.041	Compressors	.2	Secondary refrigerants (circulating liquids). Brine. Other salt solutions. Solutions or organic compounds, glycerol, alcohol etc.
	—621.51	.3	Refrigerant oils
.042	Pressure-reducing valves.		Plant for refrigerating rooms. Cold storage depots. Deep freeze rooms. Low temperature chambers
	Pressure-regulating valves		Preservation of low temperatures in general. Underground cold stores. Construction. Insulation
	—621.646.4		Cooling by circulation of cold air
.043	Boilers (for ammonia solution etc.)	.3	Cooling by circulation of liquid coolants
.044	Condensers	.4	Devices for cooling by melting, sublimation, transformation of unmixed solids
.045	Heat exchangers for weak solutions	.5	Cooling by ice. Ice chests. Ice boxes
.046	Absorbents	.53	Cooling by sublimation (conversion of solid to gas), e.g. of solid carbon dioxide (dry ice)
.047	Circulating devices for brine, ammonia, cooling water. Circulation by gravity	.56	Cooling by absorption of latent heat of transformation
.048	Evaporators. Coolers. Brine chillers. Ice generators	.58	Devices for cooling by refrigerant mixtures
.049 2	Rectifiers (Gas separators. Water separators)	.6	Plant with direct cooling by refrigerating machines (without secondary refrigerant)
.3	Suction strainers	.7	—621.57
Principal divisions		.8	Refrigerating devices based on other principles. Cooling by evaporation. Cooling by other physical phenomena, e.g. electric. Cooling by chemical reaction
621 51	Compression and impulsion of air and other gases. Compressors. High-pressure blowers	.9	Separate cooling devices for various industries and products
	—621.61; 661.91	.91	Cooling devices for solids
.512	Reciprocating-piston compressors (positive displacement compressors) in general	.92	Refrigerating cabinets. Industrial ice boxes, cooling cupboards. Refrigerators
.513	Special designs of reciprocating compressor. Multi-stage compressors. Compound compressors	.93	Open heat exchangers for liquids and gases. Tricking coolers. Spray coolers. Mixing coolers
.514	Rotary positive displacement compressors. Compressors with rotary and semi-rotary impellers, vanes	.94	Closed heat exchangers for liquids and gases. Water jacket cooling. Air cooling etc.
.515	Centrifugal compressors. Turbocompressors	.57	Refrigerating machinery. Heat pumps
.516	Annular pumps. Blowers and pumps with liquid seal, with liquid rings. Watering pumps		621.57-9 Operating characteristics of refrigerating machinery etc.
.517	Air and gas compression using entrainment in a pressurized liquid jet. Liquid-jet compressors. Blast pumps		621.57-9 $\approx$ 66-9, e.g.
.52	Rarefaction of air and other gases. Air pumps. Exhausters. Vacuum pumps		621.575-932.2 Continuous-running absorption refrigerating machines
.521	Exhausters and rarefying pumps in general. Production of low pressures and vacuums	.572	Simple refrigerating plant (combination of regulator and compressor)
.522	Reciprocating-piston vacuum pumps (positive displacement vacuum pumps)	.573	Mechanical refrigerating plant using a gas not liquefied. Air refrigerating plant. Leblanc multi-cylinder air system
.1	Vacuum pumps with cocks or valves	.574	Compression refrigerating machines
.2	Dry-air pumps, with liquid seals	.575	Absorption refrigerating machines (with wet or dry absorption)
.3	Moist-air pumps. Pumps with wet piston	.576	Special designs of refrigerating plant. Rotary refrigerating machines (Audiffren system). Compression-absorption machines. Vacuum machines
.4	Oil-sealed vacuum pumps	.577	Heat pumps
.5	Mercury piston vacuum pumps	.58	—662.99
.524	Rotary positive displacement vacuum pumps	.59	Ice production. Use of low temperatures for solidifying liquids
.525	Mercury rotary vacuum pumps		—663.67
.526	Centrifugal vacuum pumps (non-positive displacement vacuum pumps). Vacuum turbo-pumps	.592	Apparatus for generating extremely low temperatures. Cryogenic equipment. Liquefaction of gases (and related processes)
.527	Vacuum pumps using entrainment in a liquid or vapour jet. Air ejectors (water-jet, steam-jet, mercury-vapour-jet)		—661.91
	—621.694		Liquefaction of gases and gas mixtures that are not readily condensable
.8	Diffusion pumps. Molecular pumps.		
.528	Condensation pumps		
	Rarefaction of air and gas by chemical and physicochemical means (e.g. low temperatures, absorption, ionization)		
.54	Applications of compressed and rarefied air		
	—62-85; 621.867.8		
.541	Air motors. Pneumatic engines. Motors working by compressed air or gas, by rarefied air or gas. Vacuum motors		
.542	Pneumatic tools (compressed-air tools)		
.547	Pneumatic devices (compressed-air or compressed-gas) for projecting powders or granules (Sandblasters. Grit-blasters. Shot-blasters)		
	—621.7.023; 621.9.048; 621.924.9; 666.1.053.617.62; 666.281		

621.593	Separation and fractionation of liquefied gas mixtures	621.642.3	Stationary, fixed vessels and containers.
.594	Use of liquefied and solidified gases, e.g. dry ice —661.97	.31	Tanks. Cisterns. Reservoirs —624.953; 628.111; 628.134
621.6	FLUIDS HANDLING, STORAGE AND DISTRIBUTION PLANT AND TECHNIQUES —621.867.7/8; 622.69	.37	Reservoirs open to the air
Special auxiliary subdivisions		.39	Subterranean reservoirs
621.6.01	Theory of fluids handling	.8	High-rise reservoirs. Raised storage tanks (for liquids other than water) <i>For water towers — 624.953, 628.134</i>
.02/.04	Kind of substance for handling and distribution —54-1; 62-403/-405	.643	Storage losses and their prevention. Seepage. Leakage. Evaporation etc.
.02	Gases. Vapours. Air		Fluids channelling and distribution devices.
.021	Dry air		Conduits. Pipes —621.774
.022	Moist air		621.643-03 Conduits according to material <i>Details from Table I(k)-03, e.g.</i>
.023	Steam. Water vapour		621.643.1-033.3 Concrete open conduits. Concrete channels, gutters
.028	Flammable, combustible gases		621.643.2-033.3 Concrete closed conduits. Concrete pipes
.03	Liquids. Water. Oils. Slurries etc.		.5 Glass pipes. Vitreous pipes
.031	Water		.6 Ceramic pipes. Porcelain, earthenware pipes etc.
.032	Gassy, effervescent liquids (beer, mineral waters etc.)		-034.13 Cast iron pipes
.033	Slightly viscous liquids. Oils		.14 Steel pipes
.034	Very viscous, syrupy liquids (tar, molasses etc.)		.2/.8 Non-ferrous metal pipes
.035	Liquids containing solids in suspension. Slurries		.3 Copper pipes. Pipes of copper alloys, brass, bronze
.036	Liquefied gases (liquefied air etc.)		621.643.3-036.4 Rubber hose
.04	Loose solids. Particles. Dusts. Powders.		.5 Plastics hose
.05	Grains. Granules. Bulk material		Special auxiliary subdivisions
.052	Methods, installations and equipment for fluids handling	621.643.06	Pipe fittings
.052	Pumping installations. Methods of pumping —621.65/.69	.061	Straight connectors
.057	Filling, emptying, relief and overflow devices. Inlets. Outlets. Ventilation and evacuation devices —621.646; 621.648	.062	Curved connectors. Bends. Elbow pieces
.06	Connections: types and forms —621.643 4	.063	Junction pieces. T-pieces. Cross-pieces
.07	Design, construction, testing of fluids handling installations	.064	Bifurcated connectors. Y-pieces
Principal divisions		.065	Adaptors. Reducers
621 61	Blowers and blowing machines in general. Simple, reciprocating, rotary and jet blowers —621.51; 669.162.223	.066	Pipe clips (saddle clips)
.611	Simple blowers	.067	Terminal plates. X-pieces (blank flanges)
.1	Moist-air blowers. Bell, drum, water-barrel blowers	Principal divisions	
.2	Dry-air blowers. Bellows	621.643.1	Open conduits. Channels. Gutters
612	Reciprocating piston blowers in general	.2	Closed conduits. Pipes. Pipelines. Tubes —666.173
613	Special designs of reciprocating blower. Compound blowers	.3	Flexible pipes and tubes. Hose
614	Blowers with rotary impellers, vanes	.4	Pipe and hose connections. Compensation devices —521 643.066; 621.885
.615	Centrifugal blowers		621.643.4-762 Pressure-tight joints and jointing. Packings, sealants for pipe connections
.617	Blowers using jets or entrainment Jet blowers (e.g. liquid-jet blowers)	41	Tubular connections. Flexible connections
63	Rotary air-movers. Fans. Air extractors	411	Permanent connections, riveted, soldered, welded etc.
631	Rotary air-movers in general Simple fans.	412	Disconnectable flanged connections
634	Fans with wire cage	8	Loose flanges
635	Helical rotary fans Axial-flow fans	413	Socket connections. Spigot-and-socket joints
636	Centrifugal fans. Turbofans	414	Threaded connections. Screwed pipe joints
64	Cross-flow fans Tangential fans	415	Rapid, quick action connectors. Catch, hook, claw devices. Bayonet couplings —621.889 8
642	Fluids storage and distribution installations. Containers. Conduits. Pipes	.418	Articulated connections
1	Fluids storage vessels. Containers. Receptacles Tanks Reservoirs etc.	43	Compensation devices for heat, thermal expansion. Pipe expansion joints
.1	Portable and movable vessels Cans Pots Jugs Pitchers. Jars Tubs —621 798.1; 641 542; 667.661.17	.5	Tapping points. Draw-off devices
.14	Pails Buckets	51	Standpipes. Hydrants —614.843.1
.16	Casks Kegs. Barrels	.53	Drinking fountains, troughs etc.
.17	Bottles. Flasks. Cylinders —666 171	.54	Water cranes (e.g. by railways) —629.4.082.4; 656.065.5
.2	Vessels and containers mounted on vehicles and craft. Tankers —629.1-445.6	644	Pipelines and their construction —628.147; 656.56
		.645	Fluids handling and distribution terminals

621.646	Devices for opening and closing pipes. Valves. Flow regulating devices. Safety devices —673.6	621.655	Pumps according to fluid distribution system. Valved and valveless pumps
.2	Valves	.656	Piston pumps without flywheels. Simplex, duplex and multiplex pumps
.22	Screw valves	.658	Diaphragm pumps
.23	Multiway valves	.659	Combined reciprocating and rotary piston pumps
.24	Automatic, self-acting valves. Check valves. Non-return valves	.66	Rotary and semi-rotary impeller machines and driven parts
.25	Disc and flap valves. Choke valves (throttle valves). Butterfly valves	.662	Rotary machines with simple, uniform impeller rotation. Vane pumps
.28	Safety valves in general —621.183.3; 621.646.4	.663	Rotary impeller machines with variable speed or intermittent rotation
.3	Flow regulators. Consumption regulators	.664	Machines with double or multiple intermeshing rotary impellers. Gear pumps
.4	Pressure regulators. Pressure-reducing valves. High-pressure safety valves	.665	Other rotary impeller machines. Screw pumps
.42	Diaphragm pressure regulators	.666	Machines with semi-rotary or oscillating impellers
.43	Bell pressure regulators	.668	Rotary pumps with drums or scoop wheels
.44	Float pressure regulators	.67	Centrifugal pumps. Turbopumps
.49	Safety valves for very high pressures	.671	Centrifugal pumps. Radial-flow pumps
.5	Cut-off (shut-off) valves in general. Slide valves. Gate valves. Sluice valves	.674	Helical rotary pumps (screw-propeller pumps) Axial flow pumps
.6	Taps. Cocks. Faucets	.675	Turbopumps
.7	Flow mixing devices	.68	Various other pumps. Elastic-walled pumps. Peristaltic pumps. Special-purpose pumps. Measuring pumps (metering pumps)
.72	Mixer taps (e.g. for blending hot and cold water)	.69	Devices for transporting, drawing and flow-reversing of liquids by direct action or by entrainment in a fluid
.73	Mixer valves	.691	Devices for raising liquids by means of gas or compressed air in general. Monte-jus etc.
.74	Mixer slides (slide valves)	.692	Devices using pressure of gas other than air, e.g. compressed carbon dioxide
.8	Automatic, self-acting cut-off devices. Isolating valves	.693	Pulsometers
.9	Accessories for pipes, valves, cocks etc.	.694	Devices using entrainment in a fluid jet. Jet pumps —621.527
.92	Housings	.2	Steam jet pumps. Air jet pumps. Gas jet pumps
.93	Seatings. Packings	.3	Injectors. Ejectors. Jet condensers
.94	Devices for attenuating energy. Shock-absorbing, shock-reducing devices. Suppressors for water hammer, valve chatter	.695	Liquid jet pumps Water jet pumps etc. —621.647.3
.95	Indicators and alarms for bursts, fractures, pressure irregularities. Leak detectors		Raising of liquids by mixing with compressed air. Air-lift pumps
.97	Devices for protection against freezing and blocking of pipes —624.143	621.7	PLASTIC OR CHIPLESS WORKING, FORMING, TREATMENT OF MATERIALS IN GENERAL. PROCESSES, TOOLS, MACHINES, EQUIPMENT —621.9; 669.056
.98	Various other shut-off devices. Automatic closures permitting removal of tapping device. Key, bolt, locking closures		Special auxiliary subdivisions
.647	Spraying, sprinkling, flushing devices —66.069.83	621.7-1/-9	Details of machines, tools, equipment, processes etc. <i>Details from 62-1/-9</i>
.2	Droplet-forming parts. Atomizers	621.7.01	Principles and theory of working and treatment of workpieces. Workability. Factors influencing working. Conditions. Faulty working .01 and its subdivisions are also applicable in 621.9
.3	Spray and jet-forming devices. Nozzles —614.843.4	.011	Workability. Formability. Stresses, flow etc. <i>Details by :539...</i>
.4	Rotary sprinklers —614.844	.012	Working movement, stroke, travel. Effect on working etc. .012 is not applicable in 621.745 and 621.78
.7	Flushing devices (except containers and pipelines). Devices for intermittent swilling	.013	Angle, rake of tool. Direction of working (with or across the grain) .013 and its subdivision are not applicable in 621.78
.648	Various draining and overflow devices	.3	Rake of tool: top-rake, side-rake
.2	Draining devices for various vessels. Wastes for sinks, basins, baths etc.	.014	Efficiency of tool or machine. Influencing factors, power required .014 and its subdivisions are not applicable in 621.78
.4	Overflow devices for sinks, basins, baths etc.	.2	Resistance of material. Frictional resistance etc.
.649	Devices for transporting, drawing and flow-reversing of liquids (except pumps and entrainment devices). Water-raising mechanisms	.3	Pressure applied to tool
.1	Scoops. Balers. Pivoted and counterpoised buckets (shadufs). Valved troughs etc.	.4	Penetration of tool
.2	Draw wells (bucket-and-rope devices). Swivel pails		
.4	Norias. Bucket chains. Endless-chain elevators —621.867.3		
.5	Screw mechanisms. Archimedean screws		
.6	Wheel elevators. Bucket wheels. Scoop wheels (with fixed or swinging scoops). Elevators with paddle-wheel drive		
.7	Siphon devices. Siphon pumps		
.65	Pumps and pumping in general. Force pumps (reciprocating piston pumps) 621.65.05 Pumping methods, installations and equipment		
.652	Pumps with disc pistons		
.653	Pumps with plungers		
.654	Piston pumps with oscillating cylinder		

621.7.014.5	Rate of working. Speed of tool or machine	621.7.07	Forming appliances, tools and accessories.
.8	Formation of chips, flakes, flour, dust, other waste products —621.775.8		Patterns. Dies etc. .07 and its subdivisions are also applicable in 621.9 —621.753
.015	Surface finish. Resultant condition of workpiece —62-408; 621.7.08; 621.78.015	.072	Master copies, models. Templates. Patterns and pattern-making, e.g. 621.744.072 Foundry patterns (moulding patterns). Strickles, strickling gear 621.941.072 Copies and templates for lathework, turning
.016	Working conditions. Ambient influences (atmosphere etc.)	.073	Form-reproducing, pattern-reproducing appliances. Dies. Permanent moulds, e.g. 621.746.073 Permanent moulds for die-casting 621.983.073 Dies for cold sheet-working and deep drawing
.2	Hot working 621.7.016.2-97 Temperature range 621.7.016.2-97 $\approx$ 66-97 (— 62-9)	.074	Ancillary forming appliances. Support and reinforcement formers etc., e.g. 621.98.074 Sheet-working formers and blocks
.3	Cold working —62-9; 66-97	.075	Form tools for plastic working and finishing of workpieces, e.g. 621.981.075 Sheet-bending tools (including machine tools)
.4	Dry working	.077	Manipulating, gripping, securing and other accessories for forming appliances. Tongs. Clamps etc.
.5	Wet working	.079	Accessory materials for working and treatment. Lubricants, pastes, protective substances etc. —621.7.029
6	Working in protective or reactive ambient media. Working under controlled conditions 621.7.016.6 $\approx$ 621.78.06	.08	Measurement and testing generally .08 is not applicable in 621.78, but is also applicable in 621.9 —53.08; 531.7; 621.753
.018	Working allowances. Machining allowances	.09	Aftertreatment. Finishing etc. —621.757
.019	Faulty working. Working flaws, defects etc. and their testing, e.g. 621.746.019 Faulty casting and castings Flaw details by :620.19..., e.g. 621.7.019:620.191 Surface defects from faulty working. Roughness, pitting, discoloration etc.	.092	Aftertreatment 621.7.092 $\approx$ 621.7.02 —621.747; 621.9.047/ 048
.02	Preparation, cleaning and coating of workpiece for treatment. Pretreatment —621.7.09; 621.795	Principal division	
022	Dry cleaning. Descaling by mechanical or physical means	621.73	Forge work. Forge layout and equipment. Open and die forging —682; 739
.2	Brush cleaning. Wiping. Rubbing down	Special auxiliary subdivisions	
.4	Flame priming. Burning off	621.73.04	Forging methods techniques
6	Ultrasonic cleaning	.041	Hand forging
.023	Erosion cleaning. Blast cleaning (Sand-blasting. Shot-blasting etc.) —621.547 and references there	.042	Open forging (machine forging), with hammer, press or roll
.024	Wet cleaning. Washing. Wet degreasing	.043	Die forging (closed forging)
.2	Spraying. Sluicing. Jetting with water etc	.045	Hammer forging
.4	Treatment with detergents, soap	.046	Press forging
6	Treatment with solvents	.047	Roll forging
.025	Pickling. Chemical descaling. Chemical degreasing —621.794; 621.9.047	.06	Machines and ancillary plant
2	In alkaline bath	.073	Dies
.3	In acid bath	.074	Anvils. Mandrels. Formers. Swage blocks etc
.4	In neutral or other kinds of bath	.075	Hammers and special forging tools
6	Neutralizing	.077	Accessory appliances. Tongs. Clamps. Manipulators
.7	Rinsing	Principal divisions	
027	Electrolytic cleaning, derusting etc. —621.357	621.733	Forge equipment, hearths and furnaces in general —62-6, 66.04; 662.6/ 8 621.733-621.365 Electric forge furnaces 621.733.074 Forging anvils
029	Coating and other preparation for working or treatment —621.357.7; 621.7.079; 621.793/ 795	.735	Forging operations and techniques
.04	Treatment, working and forming techniques .04 and its subdivisions are not applicable in 621.78 and 621.791	2	Bending, straightening etc.
043	Die forming	.3	Operations altering the cross-section.
044	High-energy-rate forming (HERF). Explosion forming etc.	6	Upsetting, drawing, swaging, flattening etc
2	High-explosive forming and working	7	Twisting
3	Expanding-gas forming (pneumatic forming. Gas as forming medium)	7	Dishing. Flanging —621.984
4	Hydro-spark forming (electrohydraulic forming. Water or other liquid as forming medium)	8	Forge welding —621.791.42
5	High-pressure forming (with plunger or other mechanical former)	Special auxiliary subdivisions	
7	Electromagnetic forming and working	621.735.8.052/.053 $\approx$ 621.791.052/.053	
06	Machinery assemblies, main components, auxiliary units .06 is not applicable in 621.78, but is also applicable in 621.9		
067	Transfer machines (units for handling stock between treatments) —621.86/.87		
068	Holding or disposing machines and units (between treatments). Coilers etc.		

Principal division		621.745.3	Furnaces. Main types, operation and control, maintenance etc.
621.74	Foundry work. Foundry layout and equipment. Moulding and casting		—66.04; 662.6/.9
	—669, e.g. 669.163; 672.1	.32	Crucible furnaces. Pot furnaces. Rotary and rocking furnaces
Special auxiliary subdivisions			—621.365
621.74.041	Sand casting in general		Reverberatory furnaces (flame furnaces).
.042	Centrifugal casting	.33	Open-hearth furnaces
.043	Die casting		Shaft furnaces. Cupola furnaces
.045	Investment moulding and casting. Lost wax process (precision casting)	.34	Small converters. Other types of foundry melting furnace
.046	Compound casting (in one or more than one metal)	.36	Installations for duplex processes in foundry work
.047	Continuous casting	.37	Materials and additions used in foundry melting
	—621.746.27	.4	Metals. Fluxes. Clinker. Slag etc.
Principal divisions		5	Melting (smelting) procedure, processes, products
621.742	Moulding sands, loams, mixes and their preparation		621.745.5.669.71 Aluminium smelting
.4	Materials: sands, loams etc. Composition, properties, suitable mixes	.55	Melting process. Effect of slags, scoria, sulphur in fuel etc.
.42	Moulding sands. Composition, properties, suitability etc.		—66.046.5
.43	Loams. Composition, properties, suitability etc.	.56	Molten metal or melt. Tapping, melting temperatures (fusion temperatures), yield etc.
.45	Fillers and special additions (except binders and cements). Blacking (coal dust), straw, hay, dung etc		—621.746.51
.48	Binders. Cements	.58	Slags. Chemical composition, proportion of total yield etc.
	—666.9	.746	Casting. Transferring and pouring the molten metal
.5	Treatment of moulding sands, loams etc. Drying, milling, screening, mixing	.2	General arrangements for casting, transfer of molten metal etc.
	—621.926/.928; 66.047	.21	Casting pits
.743	Cores. Core-making	.22	Conveyance of molten metal to the moulds.
.4	Cores and (built-up) core materials		Batch casting
	—621.742.4	.24	Bringing the moulds to the ladles. Series casting
.5	Core operations. Striking-up, sweeping of cores	.27	Arrangements for continuous production of castings
.52	In a core box		—621.74.047
.53	With strickle board or loam board	.3	Equipment for casting and pouring
.54	Using core bars, barrels	.31	Casting tables
.744	Moulding. Patterns, moulds and mould-making	.32	Ladles
	621.744.072 Foundry patterns (moulding patterns). Strickles, strickling gear	.33	Slag ladles. Slag trolleys
		.34	Pouring basin
.3	Moulds (built-up moulds). Enclosure, maintenance, renewal	.393	Ingot moulds
.4	Moulding machines and their operation. Machine moulding generally	.395	Group plates. Funnel tubes. Channel bricks etc.
	—621.979.3	.4	Runners and gates. Risers. Shrinkage heads (dead heads)
.42	Machines requiring hand lifting or hand drawing of patterns	.5	Pouring operations
.43	True moulding machines. Machines with mechanical sand packing and mechanical lift or draw	.51	General considerations. Temperatures. Methods of introducing molten metal. Rate of pouring. Pouring time
.44	Machines with packing plate (sand-packing by pressure). Squeezers	.55	Methods of pouring. Top, side, bottom pouring. Staple casting. Pouring with stirring
.45	Jolt-squeeze machines	.56	Removal of slag and oxides. Skimming, filtering etc.
.47	Jolt-ram machines. Vibration machines		—66.067/.068
.48	Sand-slingers. Other centrifugal machines	.58	Methods of obtaining sounder castings, even density etc. Use of pressure or vacuum, chilling, heating, electrical means. Shaking, jolting etc.
.49	Pressure-moulding machines	.6	Solidifying. Standing time. Cooling. Cooling pits
.5	Moulding operations and techniques, especially hand moulding		Aftertreatment of castings. Finishing
.52	General operation. Packing of drag and cope. Rapping and drawing the pattern. Core and chill insertion. Cutting the gates and runners. Closing the mould or flask	.747	Aftertreatment operations. Trimming.
.53	Open sand moulding with pattern. Core moulding	.51	Polishing. Repairing etc.
	—621.743	.52	Stripping of castings. Separation from moulds
.54	Flask and box moulding with pattern		Dressing-off. Trimming. Fettling. Removal of mould marks, runners, risers, cores
	—621.744.3	.53	Sand removal. Preliminary cleaning-off, brushing, wiping
.55	Bedding-in, with strickle board or loam board. Template moulding	.54	Cleaning, polishing. Grinding-off projections. Peeling. Tumbling etc.
	—621.744.072	.55	Blast cleaning. Sandblasting etc.
.56	Shell moulding		—621.547 and references there
.58	Drying and hardening the mould	.56	Chemical cleaning. Pickling etc.
.745	Melting (smelting). Furnaces, materials, processes		—621.7.025 and references there
	—662.92		

621.747.57	Burning off. Blazing off. Decarbonizing. Desurfacing	621.771.25	For bar, rod, wire rod —621.778.1
.58	Repairing of damaged castings. Bonding, welding, reinforcing etc.	.26	For large sections and profiles. Beams, girders, rails etc.
.751	Marking and laying-out of work —621.7.08; 744	.28	For tube, pipe —621.774.35
.753	Jig-making and tool-making generally. Tolerances, limits, gauges etc. —531.7; 621.7.07/.08	.29	For tyres, wheel rims, wheel centres and other special products. For tapered, conical products (spiral mills). Spoon mills. Pointing mills. Chain mills
.1	Tolerances	.6	Mills for special roll-forming and working processes
.2	Limits and fits	.63	For further working of strip or band into special sections or profiles. Channels, ducts, angle sections etc.
.3	Gauges and gauge-making generally —53.08	.65	For further working of rolled bar, rod or other sectional material (except strip or band), e.g. into balls, shot —621.771.25
.4	Jigs and jig-making generally <i>Denote jigs for particular purposes by adding the .07 special auxiliaries (from 621.7.07) to specific subdivisions of 621.7 and 621.9</i>	.67	For die-forming, tool-forming. Roto-flow, die-rolling, Knurling mills etc. —621.992.7
.5	Tools and tool-making generally <i>Denote tools for particular purposes by adding the .07 special auxiliaries (from 621.7.07) to specific subdivisions of 621.7 and 621.9</i>	.8	Rolling on. Cladding, plating by rolling 621.771.8:669.718 Aluminium plating by rolling
.757	Fitting, assembling and mounting generally —658.515	.772	Boilermaking. Making of pressure vessels, reaction vessels etc. —621.18; 621.73; 621.98
.762	Powder metallurgy —661.6; 661.8; 666.3/.7; 669-138; 669.018.9	.1	Heavy boilermaking's work. Iron and steel boilermaking
.2	Production, manufacture of powder for working and treatment	.2	Light boilermaking's work. Coppersmith's work
.3	Treatment of powder before pressing and sintering 621.762.3:66.047 Drying of powder	.4	Construction and design of boiler drum, pressure vessel. Seamless, welded, riveted, wound vessels
.4	Pressing of powder and of pre-pressed compacts. Powder moulding etc.	.8	Sheathing, stiffening, reinforcing with sheet metal
.5	Sintering of compacts —536 421.5; 622.785; 66.046.44	.774	Tube and pipe manufacture generally —62-462; 621.643
.8	Aftertreatment of sintered compacts: working, fabricating, finishing	.1	Cast pipe and tube manufacture generally
.82	Sizing. Coining	.2	Seamed tube manufacture (welded, die-drawn and otherwise fabricated tube)
.86	Impregnation of porous sintered compacts	.3	Seamless tube manufacture (forged, rolled, drawn tube etc.)
763	Processes akin to powder metallurgy. Fibre metallurgy. Working from pellets, fabrics etc. —621.775	.31	Pierced, trepanned tube. Tube drilled from billets
767	Spray forming. Dispersion metallurgy etc. —621.793 7; 678 027.7	.32	Punched tube. Tube sheared out, e.g. with hydraulic press
.77	Rolling, extruding, drawing and other plastic forming except forging and sheet-metal working —621.73; 621.98; 621.992 7	.33	Tube forged on a mandrel. Swaged tube
771	Rolling. Rolling mills	.34	Deep-drawn tube
Special auxiliary subdivisions		.35	Rolled tube —621.771 28
621.771 06	Mill design and construction. Stand and roll arrangement	.36	Pilger-rolled or step-rolled tube
061	Single-stand mills in general. Single-pass or single-roll mills	.37	Drawn tube. Drawbench process. Pushbench process. Cast and subsequently drawn tube
062	Double-pass mills	.38	Extruded tube
063	Multi-roll or cluster mills (with 4, 6, 12, 24 rolls)	.4	Electrolytic manufacture of seamless tube —621.357
064	Planetary mills	.6	Bending, coiling, straightening of tube or pipe
065	Multi-stand mills with series or sets of roll pairs (continuous mills)	.7	Drawing down, tapering, expanding of existing tube or pipe. Narrowing, flaring, bellling the end etc.
067	Transfer units (for handling stock between passes or operations)	.8	Surface forming of tube or pipe. Tube patterning, ribbing, fluting etc.
068	Coilers etc (for holding strip or rod between operations) —621.771 6	.775	Ball, shot, pellet and metal wool manufacture
.07	Design and construction of rolls	.2	Ball and round shot manufacture
073	Smooth rolls (sheet or strip rolls)	.6	Small shot, pellet and slug manufacture —621.763
074	Patterned, grooved rolls (section rolls)	.8	Chippings, fibres and metal wool manufacture —62-48/-49; 621.7.014.8
Principal divisions		.777	Extruding (strip and sectional material) <i>Denote shapes by -41/-42 from 62-4</i> —621.979
621 771 2	Rolling and rolling mills according to product formed	.2	Steady-pressure extrusion
22	For slabs, billets and other semis. Blooming mills. Cogging mills	.4	Impact extrusion
23	For smooth (unpatterned) plate, sheet or strip	.8	Sheathing by extrusion —621.771.8; 621.772.8
24	For patterned, corrugated, ribbed plate, sheet or strip		

621 778	Drawing and working of rod, wire and similar sectional material —621.774.37; 672.85; 677.53; 677.72	621.78.067	Solid media
Special auxiliary subdivisions		.081	Slow cooling, e.g. in the furnace
621 778 021	Pointing (to allow the end to enter the die). Positioning etc.	.082	Moderately rapid cooling, e.g. in still air
05	Joints and cuts <i>Used especially at 621.778 4, 621 778.6</i>	.083	Rapid cooling, e.g. in turbulent air
Principal divisions		.084	Sudden cooling in liquids. Quenching
621 778 1	Drawing: specific operations, plant and equipment 621.778.1.06 Machinery for drawing. Drawbenches and ancillary equipment .073 Forming appliances for drawing. Drawing dies	Principal divisions	
13	Bright drawing	621.783	Furnaces, baths and other devices for heating and soaking —621.784
14	Drawing and polishing	2	Furnaces
16	Matt drawing	.22	Fixed-hearth furnaces (open fixed hearth). Batch furnaces. Continuous furnaces. Roll-over, roll-down furnaces. Soaking pits
2	Bending, twisting, coil-making, straightening of wire etc. —621.774 6; 621.981/.982	23	Movable-hearth furnaces. Walking-beam furnaces. Car-type hearth furnaces. Rotary hearth furnaces. Drum furnaces. Tunnel furnaces
.23	Bending	.24	Closed-container furnaces. Pot furnaces. Crucible furnaces. Muffle furnaces. Bell furnaces. Chamber furnaces
.24	Twisting of rod or single-strand wire	.4	Heating and soaking baths, e.g. for tempering, liquid carburizing and solution treatment
.27	Coil-making. Winding, reeling. Coiling into springs —62-272	.784	Baths and other devices for cooling. Baths in general —621.783
.28	Straightening of rod, wire etc.	.6	Quenching baths. Other quenching devices
.4	Joining, strengthening, reinforcing of and with wire. Wire-stitching, binding etc	.8	Devices and arrangements for slow and moderately rapid cooling. Cooling furnaces. Cooling pits. Cooling beds
Special auxiliary subdivision		.785	Heating and heat treatment processes and procedure —669-15
621 778 4 052	Joints: various types 621.778.4.052 ≈ 621.791.052	.1	Heating and soaking for subsequent hot working
Principal divisions		3	Annealing and related heat treatment processes (e.g. normalizing, solution treatment)
621 778 5	Working of wire on continuous form, e.g. into barbed wire —677.53	.33	Black annealing
6	Machining, cutting, splitting of rod and wire.	.34	Bright annealing
8	Special working, forging of rod and wire Working of (thin) rod and wire into articles for general use, ornaments etc. 621 778.8:621.88 Into heavy fasteners, nails, screws etc. .686.86 Into office fasteners, clips, staples etc	.36	Processes involving phase transformation. Full and isothermal annealing. Normalizing
78	Heating for working. Heat treatment. Hardening —66-97/-98; 66.04; 669-15	.37	Processes not involving phase transformation. Solution treatment (alone)
Special auxiliary subdivisions		.4	Intermediate annealing. Stress relieving. Soft annealing. Graphitizing. Malleabilizing
621 78 012	Methods of heating according to heat source	.5	Heat treatment methods aimed at obtaining a bainitic structure. Austempering (austenitizing). Isothermal transformation. Patenting of wire
.2	Open fire	.51	Surface hardening. Case-hardening. Case-carburizing —621.793.8
.3	Indirect heating (in electric resistance furnace, solid-fuel, liquid-fuel, gaseous-fuel furnace)	.52	Case-carburizing (without hardening)
5	Direct heat generation in the stock (electric induction, high-frequency etc.)	.53	Cementation. Carbon case-hardening. Pack-hardening
.8	Recuperated heat (from another source)	.538	Surface hardening with other non-metals, e.g. nitrogen, sulphur. Nitriding
013	Methods of heating to required stock or workpiece temperature	.54	Denitriding
.6	Heating up	.56	Surface hardening by localized heating. Flame hardening. Electrothermal hardening —669-155.4
.7	Preheating	.56	Immersion hardening (dip hardening)
.8	Soaking. Compensating. Maintaining constant temperature	.6	Hardening
.014	Rate of heating. Heating time	.616	Quench-hardening of steel. Martensitic hardening, martempering etc.
.5	Rapid heating	.68	Hardening according to degree of hardness attained
.7	Slow heating	.681	Soft
.015	Surface condition after heating	.683	Moderately hard
.06	Ambient media for heating, soaking and cooling. Furnace atmospheres etc. —66-97/-98 <i>The .06 auxiliaries listed under 621.7 are not applicable here</i>	.685	Hard
.062	Gaseous media. Air. Protective and reactive atmospheres	.687	Very hard. Glass hard
.063	Water. Aqueous solutions or mixtures	.7	Tempering and ageing —667.661.76
.064	Liquid air. Liquefied gases	.72	Tempering
.065	Oils and emulsions	.78	Ageing. Precipitation hardening
.066	Molten metals or salts	.796	Quenching and tempering (of steel)
		.797	Ageing or temper-hardening combined with work-hardening

621.785.9 Low-temperature treatment. Other (heat) treatments
 .787 Work-hardening. Hardening by mechanical means. Drawing, compression, rolling, impact (peening)
 .789 Other structure modification. Hardening, toughening etc. by other means (e.g. by cooling in a magnetic field, by ultrasonic vibrations)
 .79 **Welding, bonding, surface treatment and finishing. Keeping and storing. Packing and packaging**
 .791 Welding and allied techniques
 —621.735.8; 621.771.8; 621.78

Special auxiliary subdivisions

621.791.021 Seam preparation. Forming the edges
 .03 Welding plant and equipment
 .033 Soldering irons, copper bits etc.
 .034 Blowpipes. Blowlamps. Torches, lances etc.
 .035 Gas welding and cutting appliances
 .036 Thermit welding and cutting appliances
 .037 Electric welding and cutting appliances. Permanent non-consumable electrodes. Point electrodes (tip electrodes). Rotatable electrodes (wheel electrodes)
 —621.791.042
 .04 Filler materials and fluxes
 .042 Filler metal rods and wires. Consumable electrodes
 .046 Filler metal in powder and bonded form. Welding thermit etc.
 .047 Filler materials for welding non-metals
 .048 Fluxes: powders, pastes etc.
 .05 Joints. Welds. Cuts
 .052 Joints
 .2 Lap joints
 .4 Butt joints
 .6 Strap joints
 .053 Welds
 .054 Cuts

Principal divisions

621.791.1 Welding by application of purely mechanical energy. Cold press welding. Friction welding. Ultrasonic welding
 .3 Soldering. Brazing. Bronze-welding (braze-welding)
 35 Soldering Solders
 —669 65'4
 .36 Brazing. Hard solders
 —669 35
 .38 Bronze-welding (braze-welding)
 4 Welding by application of both heat and mechanical energy
 42 Forge welding (hammer welding)
 Alternatively, class under forge work at 621.735 8
 44 Heated-die welding (of metals)
 46 Heated-tool welding (of plastics)
 .5 Autogenous welding. Gas welding
 55 Gas fusion welding. Oxygen-gas and air-gas welding (e.g. oxy-acetylene fusion welding)
 56 Gas pressure welding (e.g. oxy-acetylene pressure welding)
 58 Hot-gas welding (of plastics)
 6 Thermit welding
 7 Electric welding
 72 Electron-beam welding Other particle-beam welding
 75 Arc welding
 752 Carbon-arc welding
 753 Metal-arc welding (e.g. tungsten-arc welding)
 754 Arc welding with protective atmosphere
 621 791.754'1'9 ≈ 546.1'9, e.g.
 621 791.754'29 With inert-gas atmosphere. Inert-gas arc welding
 755 Plasma-arc welding
 76 Resistance welding
 77 Induction welding
 793 Electro-slag welding

621.791.797
 .8

Electrolytic welding
 Gas-electric and other combined welding processes. Gas-arc welding. Atomic hydrogen welding
 Techniques related to welding
 Overlaying. Building-up. Hard-facing
 621.791.92 ≈ 621.791, e.g.
 621.791.923.6 Overlaying etc. by brazing (the last 2 digits are from 621.791.36)
 —621.771.8; 621.785.54
 Denote overlaying metal by :669..., e.g.
 621.791.92:669.018.25 Overlaying etc. with exceptionally hard or wear-resisting alloys

.94

Thermal cutting

621.791.94 ≈ 621.791, e.g.
 621.791.945 Gas cutting. Oxygen cutting (from 621.791.5)
 .947 Electric cutting (from 621.791.7)
 .948 Gas-arc cutting (from 621.791.8)

.792

Joining by adhesion. Bonding, gluing etc.
 Denote materials by colon combination, adding firstly the number for the base material, followed by the number(s) for the bonded layer(s)

Special auxiliary subdivisions

621.792.052 Joints
 621.792.052 ≈ 621.791.052
 .053 Adhesive used
 621.792.053:678.061 Macromolecular adhesives. Rubber and plastics solutions

Principal divisions

621.792.3 Metal-to-metal joining
 .4 Metal-to-non-metal joining
 .6 Non-metal-to-non-metal joining
 .8 Pressure jointing. Caulking
 —62-762
 .793 Metal coating and plating. Production of conducting, semiconducting, resistive, dielectric, magnetic coats and films. Metallization
 .1 Plating and film deposition by vacuum evaporation and condensation
 .3 Plating by chemical deposition
 —621.357.7
 5 Coating in molten metal. Dip coating
 .6 Diffusion coating
 .7 Coating by spraying. Flame spraying. Arc metallizing. Plasma metallizing
 8 Adhesion coating with metal (in foil or powder form)
 —621.792; 621.795; 667.649 2
 .794 Chemical finishing and surface treatments
 —620.197 2; 669.056 9
 .4 Pickling Etching. Mordanting
 —621.7.025
 .41 Plant and equipment: layout, installation etc
 42 Etching machines, vats, tubs etc
 44 Pickling agents. Pickling and mordanting baths. Etches. Lyes
 Pickling and mordanting techniques and processes. Etching
 —621.357.8
 .46 Neutralizing. Rinsing
 .47 Aftertreatment of the material
 48 Recuperation and re-use of residues, acids
 .5 Decorative chemical treatment. Chemical colouring, dyeing, bleaching etc.
 —621.795.3; 667.661.76
 621.794.5:666.29 Decoration by enamels and glazes
 .61 Protective oxidation. Blueing. Browning

621 794 61 (cont'd)	621.794 61:621.357.8 Protective anodizing Anodic oxidation	621 798 185	Dip coating as first, inner packaging
		188	Special packaging
62	Protective phosphating. Phosphatizing	2	Ancillary packaging materials Cushioning
795	Final surface treatment. Decoration, colouring, marking etc		Closures. Sealing devices. Opening and dispensing devices incorporated in the packaging
2	Surface brightening and decorating by grinding, polishing, turning etc.	22	Cushioning Padding Wadding, sawdust, cork crumbs, straw, paper etc as shock-absorbers
	621.795.2:621 923 Brightening by grinding and polishing		—674 82
3	Surface colouring. Painting, varnishing, lacquering	24	Strings. Twines Cords Bands Tapes
	—621.794.5; 667 6		Strapping. Tying and securing in general
4	Dusting Sprinkling with powder	26	Closures Fastening, sealing, securing (except tying and strapping) Rivet, nail, staple, screw closures Adhesion closures, sealing tapes
	—621.793.8		Soldered, welded closures. Press-and-twist closures, bayonet caps etc
8	Marking. Imprinting. Stamping of marks		—683 53
	—621.798 7		
796	Keeping Storing. Warehousing	27	Opening devices incorporated in the packaging Ring-pulls, tear-off tabs, built-in keys etc
	—62-74; 621 86, 629.4 084, 629 7 084, 658 78, 664 8 03; 725 35		
2	Keeping in the open Heaps, dumps etc	28	Dispensing devices incorporated in the packaging. Spouts, pourers, nozzles etc
3	Keeping in pits, caves, tunnels etc (natural or man-made). Keeping in open or closed containers, tanks, bunkers etc	3	Filling of containers: methods, machines
4	Keeping in open sheds, barns etc. (open at sides)	31	Combined filling and closing machines
.6	Keeping in silos, hoppers, bulk-goods containers	33	Filling by hand. Manual packing in general
.8	Protective coverings, sheets, tarpaulins etc	34	Cask-filling, barrel-filling machines
797	Maintenance and repairs in general	.36	Sacking and bagging machines
	—62-7; 621.7.092, 658.58	4	Centrifugal fillers
798	Packing and packaging equipment. Packs, containers, materials, machines etc		Packing and wrapping of specific objects or materials
	—620.165.7; 621.86; 656 073.2; 658 788 4; 658.827; 659.154; 675.059, 676 028 6; 676 244; 677 057.78		621.798.4.662.81 Packing of fuel briquettes
	621 798-181.2 Large, giant-size packs	41	Packing and wrapping of sheet material (sheet stacking, positioning, covering)
	.4 Small, miniature packs	42	Packing and wrapping of sectional or profile material
	-189 2 Packaging in portions, rations, doses	422	Bundling and covering of bars and rods
	-974 Low temperature packaging	426	Reeling Spooling. Winding on bobbins
	Frozen packs		—621.7.068, 621.798.114
	-982 Vacuum packs	44	Compression packing Baling Trussing
	-986 Under moderate pressure	5	Closing, fastening, securing apparatus and machines Binding, tying machines Box strapping machines. Stitching, sewing machines Sealing machines etc
	Pressure packs		Labelling. Labelling apparatus and machines
1	Containers. Wrappers. Kinds of pack, package	6	Security devices for prevention of unauthorized opening. Labels as seals
	—62-46; 621.642, 621.869 8, 685 51	.64	Label holders, e.g. slip frames
.11	Holders, supports etc. for externally wound or mounted material	67	Marking, branding (except labelling)
.112	Flat holders, supports. Boards, cards etc.	7	—621.795.8
.114	Cylindrical or tubular supports. Spools Reels. Bobbins	.74	Seals and sealing devices for packages (e.g. sealing in wax) Seals (impresses) as marks
12	Heavy outer containers for solid goods or objects. Boxes. Cases. Crates. Chests etc	77	Rubber stamps. Branding tools
	Packing cases	8	Other packaging matters. Cleaning of packages. Cleaning equipment
	—674.6		
13	Containers mainly for transport of fluids and bulk material. Barrels. Casks Drums	621 8	MECHANICAL POWER TRANSMISSION
	—674.4		MACHINE ELEMENTS GEARING
14	Lightweight containers, rigid or semi-rigid (outer or inner packaging)		MATERIALS HANDLING FASTENING, FIXING DEVICES. LUBRICATION
141	Wicker containers. Baskets. Hampers		<i>Class here information about power transmission, machine elements etc. treated generally. If they are treated as aspects of specific kinds of machinery, class with the subject, adding the -1/-9 auxiliaries from 62, e.g.</i>
142	Rigid, set-up boxes (e.g. paper or board boxes)		621.824 Shafts. Axles (generally)
143	Cartons. Folded, collapsed boxes (e.g. paper, board, plastics cartons)		but:
144	Cans. Canisters. Tins. Small drums.		621.165-233.1 Axles, shafts etc. for steam turbines
147	Cylindrical boxes (e.g. paper or board tubes)		
	Small containers for liquids. Pots. Jars. Bottles. Flasks. Phials (vials) etc.		
	—666.171; 666.176		
15	Flexible containers and wrappers. Sacks. Sachets. Bags. Envelopes. Wrappers. Liners		
	—676.24; 676.821		
.16	Dispensing containers. Pressure-discharge, squeeze-discharge tubes, sachets etc. Tubes for pastes (e.g. toothpaste tubes)		
		Special auxiliary subdivisions	
		621.8 02	Modes of conversion or transformation of motion
			<i>The kinds of conversion of motion listed below may also be understood to imply the reverse direction</i>
		.022	Conversion of continuous rectilinear motion
		.023	Conversion of reciprocating rectilinear motion
		.024	Conversion of continuous rotary motion

621.8.025	Conversion of reciprocating rotary motion	621.827.5	Eccentrics
.026	Conversion of continuous motion in a defined track	.828	Articulated links, joints. Knuckles. Rockers. Toggle joints. Bolts and links
.027	Conversion of reciprocating motion in a defined track	.83	Mechanical transmissions. Gears, gearing. Cams. Sliding tracks. Ratchets. Clutches —62-233.3/.9
.028	Conversion of constant-speed motion into variable-speed motion		Special auxiliary subdivisions
.03	Forms of intermediate energy for the conversion and transmission of motion <i>The .03 auxiliaries are not applicable in 621.86/.87</i>	621.83.06	Types of transmission. Speed. Output
.031	Static and dynamic mass forces and resistance. Gravity, inertia, friction etc.	.061	Speed reduction. Constant ratio. Speed increase. Reversal of direction of motion
.032	Static-dynamic fluid forces. Hydraulic energy	.4	Transmissions for reversal of direction of motion. Reverse gears
.033	Pneumatic forces. Air resistance	.062	Speed changes. Continuously variable speed. Stepwise speed change. Freewheel mechanisms (neutral gears). Overdrive transmissions
.034	Static-dynamic vibrational forces. Oscillatory energy. Pendulum energy. Acoustic vibrations	.063	Speed ranges
.035	Optical forces. Radiant energy. Heat and light radiation	.064	Output ranges
.036	Thermal energy. Forces of thermal expansion and contraction. Generation of pressure by heat	.065.1	Coaxial transmissions
.037	Electric energy. Electrostatic attraction	.069.1	Transmissions with constant mesh (synchromesh gears)
.038	Electromagnetic and magnetic forces	.2	Transmissions with preselectors. Automatic drives
.039	Molecular forces. Resilience, spring power. Elastic, flexional, torsional energy		Principal division
Principal divisions		621.833	Toothed wheels (gearwheels). Toothed gears and gearing. Tooth profiles
621.81	Machine elements in general —62-1/-8, especially 62-2		Special auxiliary subdivision
.82	Journals. Bearings. Shafts. Couplings etc	621.833.01	Running, working. Efficiency. Friction
821	Journals. Pivots. Trunnions	Principal divisions	
.822	Bearings. Bushes	621.833.1	Cylindrical gears with parallel axes. Spur gears. Helical gears. Double-helical gears
.2	Thrust bearings. Collar-thrust bearings. Neck-journal bearings Step or footstep bearings	.12	Gear racks and pinions. Toothed segments
.3	Bearings adaptable to shaft location. Self-aligning bearings. Bearings with adjustable height and inclination	.15	External gears
.5	Plain bearings (sliding contact bearings)	.16	Internal gears
.57	Bearings with oil, air or other gas under pressure	.2	Bevel gears. Other gears on shafts with intersecting axes
.6	Rolling contact bearings in general	.22	Bevel gears with straight and helical teeth
.7	Ball bearings	28	Cylindrical gears on shafts with intersecting axes
.74	Radial-load ball bearings	3	Gears on shafts with non-parallel, non-intersecting axes
.75	Axial-load ball bearings	.35	Crossed helical gear pairs
.76	Combined, radial-axial ball bearings	.36	Hypoid gears
.8	Roller bearings. Needle bearings	.38	Worm gears
.84	Radial-load roller bearings	.4	Lantern wheel gears (lantern pinion gears)
.85	Axial-load roller bearings	.5	Non-circular gears
.86	Combined, radial-axial roller bearings	.51	Elliptical gears
87	Taper roller bearings (conical roller bearings)	.52	Hyperbolic gears
88	Combined ball and roller bearings. Ball-roller bearings	.6	Epicyclic gears. Hypocyclic gears. Planetary gears. Other gears and gear trains
824	Shafts. Axles	61	Planetary gears with three coaxial shafts. Differential gears
2	Straight shafts. Smooth shafts. Plain shafts	.64	Planetary gears with more than three coaxial shafts
3	Eccentric shafts. Shafts with control elements	.65	Planetary switch gear trains
32	Crankshafts —621 827 2; 621 837.7	68	Branched variable gear trains. Variable shunt gear trains
33	Camshafts	.835 2	Cams —62-233.52
4	Profile shafts (for shaft-hub connection)	8	Swashplates —62-234
5	Splined shafts. Key shafts	836	Guides. Guideways. Slide-bar transmissions
6	Flexible shafts		Slideways. Link transmissions
825	Hollow shafts	.3	Push-pull sheathed devices (e.g. Bowden cables)
	Couplings —621 838	.7	Maltese crosses
2	Permanent couplings	837 2	Eccentric drives
5	Disengageable couplings	.3	Inclined planes
6	Couplings for shafts not lying in a single axis	4	Wedge transmissions
7	Universal couplings. Cardan joints	7	Crank mechanisms —621 824.32; 621.827.2
8	Flexible couplings. Elastic couplings	838	Ratchet-and-pawl mechanisms. Engaging and disengaging devices. Clutches —62-578; 621 825
826	Extensible couplings		Ratchet-and-pawl mechanisms. Pawls. Chicks. Freewheels
	Elastically oscillating parts 621 826 ≈ 62-27, e.g. 621.826.22 Coil springs. Helical springs etc. (from 62-272.2)	.1	Mechanical engaging devices
827	Connecting rods. Cranks. Eccentrics	.2	Devices with reciprocal engagement. Claw, dog and jaw clutches etc.
1	Connecting rods	.21	
.2	Cranks. Disc cranks. Countercranks —621.824.32; 621.837.7		

621 838 22	Devices engaging by friction. Friction or slip clutches	621.86.05	Flexible transmission elements Pulleys, belts, chains etc.
3	Electric and electromagnetic engaging devices. Bovet brakes		621.86.05 $\approx$ 621.85.05
.4	Hydraulic engaging devices. Hydrostatic and hydrodynamic fluid couplings	.06	Load-bearing, carrying gear Filling and emptying, loading and unloading devices —621.861
5	Pneumatic engaging devices	.061	Lifting hooks. Lifting loops, eyes. Tongs Traverses
839	Friction drives. Friction wheels. Friction discs. Friction rollers. Electromagnetic friction engaging devices	062	Adhesion devices. Lifting magnets Suction, pneumatic, vacuum clamps for lifting —621 318.38
85	Flexible drives and transmissions	063	Grabs. Buckets (on cables etc.)
Special auxiliary subdivisions		064	Scoops. Shovels. Dippers Cutter heads Suction heads Skimmers. Graders Scraper blades
621 85 05	Flexible drive elements and devices	065	Suspension lines. Sling ropes Sling chains. Sling belts —672.6; 677 7
051	Pulleys and chain wheels	067	Bulk loading devices. Chutes, funnels, hoppers etc. (including closures, feeders)
.22	Integral pulleys or wheels	068	Discharging devices (e.g. stripper belts, dump cars)
.26	Cone pulleys. Stepped pulleys	07	Mechanisms of handling equipment Components of lifts etc.
.32	Driving pulleys or wheels	071	Curves, bends in transfer lines or routes
.34	Driven pulleys or wheels	.072	Crossover points in transfer lines
42	Fast pulleys (pulleys fixed to shaft)	075	Handling equipment of variable length Extensible, telescopic devices
4.4	Loose pulleys (idle or dead pulleys)	.078	Lift shaft equipment. Guide rails Lift cages
.5	Chain wheels Sprockets	3	Lift doors, gates. Gate and shaft locking devices
.052	Belts (and belt appurtenances)	.5	Signalling and control devices on lifts. Level or floor indicators
4	Belts according to form, cross-section (flat, round, V-belts etc.)	.6	King bolts Support, holding devices Safety brakes etc.
.7	Belt connectors, fasteners, clasps etc.	.7	Various safety mechanisms. Devices to prevent overloading, overtravel or overshooting, etc.
.8	Anti-slip and efficiency devices for belts	.8	Framework, armature of platform or cage
054	Cables and ropes (and their appurtenances) 621.85.054 $\approx$ 621.85.052	08	Weighing and apportioning equipment
.055	Chains (and chain appurtenances) —672.6	Principal divisions	
2	Chains according to design (integral, one-piece link chains, roller chains, bushing chains etc.)	621 861	Pulley hoists. Lifting tackle Block and tackle —621.86.05, 621.86 06
.4	Chains according to link form (flat-link, gear-link, jack-link chains)	3	Spur gear blocks (block and tackle with spur gears)
.7	Chain connectors. Shackles, clevises etc —621.88	.4	Differential blocks
.057	Controlling and guiding devices. Belt guides etc.	.5	Worm blocks (worm block and tackle)
058	Tensioning and positioning devices for belts, chains etc.	863	Winding gear, hoists
.2	Tensioning devices (e.g. screw tensioners) —621.889 2	.2	Drum winding gear
.6	Positioning and displacing devices (e.g. belt forks, strikers)	6	Pulley, sheave or wheel winding gear
06	Flexible drives according to performance, speed, output 621.85.06 $\approx$ 621.83.06	864	Winches. Windlasses. Capstans
Principal divisions		.865	Accessories for manual load handling
621 852	Belt drives	.1	Tools for clearing, sweeping, digging, scooping. Brooms. Pushers. Spades Rakes etc.
4	Belt drives according to belt form	.14	Gripping tools. Tongs etc.
6	Belt drives according to design (open, crossed, angle belt drives)	.15	Lifting tools. Shovels. Forks, pitchforks etc.
854	Cable or rope drives	2	Levering implements Crowbars Pinchbars
855	Chain drives	866	Short-lift raising devices. Jacks —621.869.3; 629 11.012 73; 629 119
86	Materials handling (mechanical handling) in general —62-237; 621.6; 625.1/5; 629	1	Lever, rack and slide-lift jacks
Special auxiliary subdivisions		2	Screw jacks (gins)
	<i>The following auxiliaries are also applicable in 621.87; the .03 auxiliaries listed under 621.8 are not applicable here</i>	.867	Continuous transfer equipment. Conveyors Elevators. Chutes
621 86.01	Theory. Loading	.1	Chain conveyors (except bucket conveyors)
.016	Load. Deadweight. Limit load (maximum load). Carrying, lifting capacity. Overload	.13	Conveyors for sliding or dragging material. Scraper conveyors. Double chain conveyors. Drag chain conveyors
.017	Machines according to mode of action, lifting or scooping stroke etc.	.15	Conveyors for carrying material. Arm elevators. Stack conveyors. Jointed-band conveyors. Slat, apron, platform conveyors. Circular conveyors. Continuous rotating conveyors. Rocker, swing-tray conveyors —621.876.3; 625.36
.2	High-stroke machines (acting mainly above the level on which the machine stands)	.17	Tow-chain or pusher-chain conveyors (e.g. for chain-pulled trucks, trolleys)
.3	Low-stroke machines (acting mainly below the level on which the machine stands)	2	Belt conveyors. Belt elevators
.4	Machines with combined, compound action (at both high and low level)	.21	Webbing conveyors
.03	Machines according to drive or propulsion system 621.86.03 $\approx$ 629.03, e.g. 621.86.032 Wheeled machines .033 Tracked machines. Caterpillar, crawler machines	.22	Steel band conveyors
		.23	Cable or rope belt conveyors

621 876 3	Continuously operating lifting installations. Continuous lifts (paternosters). Escalators (moving stairs) —621.867; 625.36	621.882 082.2	Whitworth threads
877	Cable cranes. Cable-excavators. Cable dredgers .04 from 621.874.04 is also applicable here —625.577	3	Special threads with triangular profile
3	Cable cranes	.4	Trapezoidal threads
.5	Portal cable cranes. Bridge cable cranes	.5	Saw-tooth threads
7	Cable excavators. Cable dredgers	.6	Rounded threads
878 2	Levelling and grading equipment Bulldozers. Graders. Tractor-graders	.7	Wood-screw threads
6	Dragline scrapers. Power shovels —621.869.44	.8	Special threads for self-tapping screws (except wood-screws)
879	Digging machinery Excavating machinery. Dredging machinery —621.86.064 (and 621 87.064), 622 232; 622.271.5; 627 748	Principal divisions	
3	Intermittent digging machines, with single bucket or shovel. Bucket dredgers	621 882.1	Screws and bolts in general. Dimensions. Through bore etc.
31	Universal bucket machines, with exchangeable attachments. Multi-purpose digging machines	.21	Screws and bolts according to form, head etc.
.32	Single-purpose, specialized digging machines, with only one or two kinds of attachment	.211	Hexagon-head screws and bolts
.322	High-scoop and low-scoop rigid-arm digging machines 621.879.322.017.2 High-scoop. Face-shovel, crowd-shovel, luffing-shovel machines. Dipper-bucket machines etc. 017.3 Low-scoop Back-hoe, back-acter machines Drag-shovel machines etc.	213	Square-head screws and bolts
.323	Dragline excavators	214 2	Hammer-head, T-head screws
.324	Grab machines. Mechanical grabs	215	Screws and bolts with knurled or milled head
327	Grapple-dredgers	216	Thumb screws
328	Skimmer machines	217	Circular, round-head screws and bolts
.4	Digging machines with other kinds of attachment. Machines with dozers, rippers, tree-stump lifters, rams etc.	218	Recessed, cup-head screws Socket-head screws
.41	Continuous digging machines	219 4	Screws and bolts with perforated head, with peg holes
.44	Helical digging machines. Worm, auger or screw excavators	.217	Grooved, slot-headed screws and bolts
.45	Chain-elevator digging machines. Bucket-chain excavators. Ladder dredgers	.218	Wing-headed screws. Fly or butterfly bolts
48	Cutter-chain dredgers	219 4	Headless screws. Studs, stud bolts Grub screws
88	Suction excavators. Hydraulic, suction dredgers (sand-pump dredgers, sludgers) Rotary, bucket-wheel excavators	.3	Nuts
	Fastening, fixing devices. Fasteners —621.778.8; 624.078.4; 672.88	.4	621.882.3 = 621.882.21
Special auxiliary subdivisions		.449	Washers
621 88 083	Sizes of spanner or key openings	.5	Spring washers
084	Assembly by shrinkage. Shrinking-on. Shrink-fitting (by heating, by cooling)	6	Locking of screws and bolts. Securing devices for screws. Split pins. Lock-nuts. Nut retainers. Circlips etc.
085	Joining of sheet metal in general	Bolts (particularly anchor bolts) <i>The term 'bolts' in English includes many objects which in UDC are classed with screws, for which — 621.882.21 and subdivisions.</i> —62-229 312; 621.828	
.087	Tools for inserting or attaching fasteners	.63	Stay bolts. Clamp or stirrup bolts. U-bolts
.088	Tools for loosening, extracting, removing fasteners 621.886.6.088 Tools for extracting keys and cotters	.64	Fish bolts. Rag bolts. Foundation bolts
Principal divisions		883	Expansion bolts
621 881	Clamping, fastening, gripping tools	12	Spanners. Wrenches. Screwdrivers
.2	Vices. Cramps. Holders. Clamps	13	Single-ended open-jaw spanners
.4	Tongs. Nippers. Pincers. Pliers	.14	Double-ended open-jaw spanners
882	Threaded fasteners. Screws. Nuts and bolts. Washers —621.99	16	Closed spanners. Ring spanners. Spanners for particular shaped nuts, e.g. square
Special auxiliary subdivisions		.17	Socket spanners. Box spanners, e.g. plug spanners (for sparking plugs)
621.882.082	Thread systems	3	Hook spanners. C spanners
.1	Metric threads	4	Keys for slotted nuts, castle nuts. Insertion spanners. Tommies
		5	Adjustable spanners. Monkey wrenches
		6	Spanners with special features. Ratchet spanners
		7	Pipe wrenches (cylinder wrenches)
		8	Screwdrivers (turnscrews)
		884	Tools for extracting broken screws
		885	Rivets and riveting. Riveting tools —621.976
		.886	Hook, eye, clip and ring fastenings and attachments. Clasps. Eyelets etc. —621.643.066; 621.643.4
		.1	Pins. Nails. Keys and quoins. Wedging
		.2	Dowels, pins, studs (for existing holes)
		.3	Nails. Brads. Tacks. Panel pins
		.5	Cramps, staples etc.
		.6	Split pins. Cotter pins
		.887	Keys. Cotters. Wedges. Quoins
		.888	Rings. Bushes, bushings. Collars, collets. Sleeves. Shrink-rings. Locating, centring rings. Adjusting rings. Spacing bushes. Split or spring bushes etc.
		2	Fixings with some movement
		.4	Hinges. Pivots. Pintles —683.36
			Springs as fasteners —62-272

621.888.6	Elastic supports. Rubber mountings, connectors etc. —62-752	621.9.025.7	Hard-tipped tools. Hardmetal, cermet and diamond tips 621.9.025.7:669.018.25 Hardmetal tips :669.018.9 Cermet tips
.889.2	Cable, wire tensioners. Turnbuckles —621.85.058.2	.029	Used, worn tools and their treatment 621.9.029:621.923.6 Tool grinding
.8	Insertion-twist connections (bayonet joints) in general —621.316.541; 621.316.582; 621.643.415	.04	Technique and special methods of toolworking and machining
.89	Lubrication —531.43; 62-72	.041	Hand tool working —621.9.021
.891	Generalities. Friction in machines. Properties of lubricants —532	.042	Power tool working —621.9.022
.892	Lubricants. Oils. Greases —665.637.6; 665.765	.044	High-energy-rate forming (HERF). Explosion forming —621.7.044; 621.98.044
Special auxiliary subdivisions		.047	Chemical and electrochemical working and machining. Etching. Electrolytic machining etc. —621.7.025
621.892.09	Lubricants for various applications	.048	Erosion machining, blasting. Spark erosion. Ultrasonic, vibration machining. Machining with particle beams. Electron-beam machining etc. —621.547 and references there
.091	Lubricants for precision mechanisms	.06	Machinery: design, layout, assemblies, main components, auxiliary units 621.9.06 ≈ 621.7.06
.093	Lubricants for light machinery and transmissions	.07	Forming appliances. Copying appliances. Dies. Templates. Formers etc. 621.9.07 ≈ 621.7.07
.094	Lubricants for heavy machinery and transmissions	.08	Measurement. Testing —53 08; 531.7; 681 .08 is not applicable in 621.926/.927
Principal divisions		Principal divisions	
621.892.1	Oils according to process of manufacture, e.g. polymerization, hydrogenation	621 91	Cutting or machining with chip formation in general —621.96
.2	Mineral hydrocarbon lubricants. Mineral oils and greases	911	Planing, shaping (technique, tools, equipment). Hand planes and chisels —674.056
.21	Oils obtained from petroleum	.2	Hand planes. Filisters. Ploughs. Spokeshaves. Adzes etc.
.22	Lignite oils. Shale oils	.3	Cold chisels. Chipping chisels
.25	Mineral greases	.4	Scrapers
.28	Synthetic oils	.5	Strippers. Drawshaves. Draw blades
3	Organic oils. Vegetable oils. Animal oils	7	Woodworking chisels. Gouges —674.054
4	Mixtures of mineral and organic oils	.912	Planing machines. Shaping machines 621.912.025 Blades of planing and shaping machines
.5	Consistent, solidified oils and greases	.1	Planing machines with moving workpiece. Pedestal and portal planers
.6	Soluble and emulsifiable oils. Oils for metalworking. Cutting oils etc.	.2	Planing machines with traversing tool. Trying or truing machines. Thicknessing machines etc.
.7	Graphite as lubricant. Graphite emulsions	.3	Shaping machines (with horizontal quick-return ram)
.8	Oils and greases with special additives. Rubberized oils. High-vacuum greases. Oils and greases with high electrical conductivity. Lubricants with additives to prevent corrosion, lower solidification point etc.	913	Slotting and mortising machines
.9	Lubricants other than oils, greases and graphite. Metal film lubrication	914	Milling and hobbing. Technique, cutters and hobs, machines and equipment
894	Anti-lubricant substances. Methods and materials for increasing the friction coefficient	2	Milling cutters (mills), hand or machine
896	Lubricating apparatus, containers, devices. Oil-cans, grease-guns, pumps etc. <i>Class here independent lubricating devices.</i> <i>For these as components of machines — 62-72, 629.11.012 26</i>	3	End-mills. Side-mills
899	Reclamation, recuperation of used lubricants	4	Milling machines
621 9	WORKING OR MACHINING WITH CHIP FORMATION. ABRASIVE WORKING. CUTTING, GRINDING, SHEET WORKING. THREAD-FORMING ETC. OPERATIONS. TOOLS, MACHINES, EQUIPMENT —669.056	6	Combined boring and milling machines
Special auxiliary subdivisions		918	Hobbing cutters. Hobs 621.914.6:621.833 Gear hobs
621 9-1/-9	Details of machines, tools, equipment, processes etc. <i>Subdivisions are listed under 62</i>	919	Filing and rasping. Technique, tools, machines and equipment —674.055
621 9 01	Principles and theory of toolworking and machining. Machinability. Workability etc 621 9 01 ≈ 621 7 01	.2	Files (especially hand files)
02	Cutting tools. Chip-forming tools —621 753	.4	Rasps. Grating tools
021	Hand tools for cutting etc —621.9.041	.8	Filing and rasping machines
022	Power tools for cutting etc. Machine tools —621 9.042	919	Broaching. Broaches —621.951.7
025	Cutting-iron (tool proper). Types. Steel-tipped, hard-tipped tools etc	.2	Broaches (especially hand broaches)
1	Types of cutting tool. Profiled cutters (chasers). Pointed tools, for piercing and grooving. Edge tools. Face tools etc	.3	Broaching machines
6	Steel-tipped tools. Tool-steel tips (brazed or welded)	92	Abrasive materials and tools. Grinding and allied techniques. Crushing, separating, mixing of abrasives

621 921	Abrasives. Grinding materials. Polishing materials —666.792	621 924 9 024	Blasting nozzle, jet
1	Metallic abrasives. Metal powders, pastes etc.	Principal divisions	
2	Abrasive grits and sands. Emery, sand, glass, basalt. Carborundum and other silicon abrasives and carbides	621 924 91	Blast machines, blowers: main types
3	Other inorganic abrasives. Polishing rouge (hydrated iron oxide). Tripoli powder (tripolite, diatomite, infusorial earth). Corundum. Pumice. Chalk, whiting. Red lead (minium)	911	Open blast machines. Hose or free-jet sandblasters
34	Diamond as abrasive	912	Chest or box blast machines
4	Vegetable polishing materials. Cork, wood particles etc.	913	Drum blast machines
5	Leather, buff, chamois etc.	914	Rotary table, turntable blast machines
6	Papers and cloths coated with abrasive	915	Sprocket-table blast machines (suction-type or pressure-type) with revolving or swinging nozzles
	Emery paper. Glass-paper. Sandpaper etc —676 265	916	Rolling-table blast machines
7	Textile fabrics for polishing. Polishing cloths, felts etc.	918	Centrifugal blast machines
8	Rubbers and plastics for polishing	93	Water-jet blasting (wet blasting) —621.7.024 2
922	Abrasive tools. Grinding and polishing slips, wheels, discs, stones etc <i>For power tools — 621 924</i>	95	Enclosures for blasting: housings, casings, cabinets etc
Special auxiliary subdivisions		926	Comminution. Crushing. Grinding. Milling. Pulverizing (especially of hard materials) <i>Class here comminution in general, as well as comminution of hard materials</i> —621.927; 622.73; 662.923; 664 73
621 922 023	Abrasive sticks, steels etc. Whetstones	Special auxiliary subdivisions	
024	Abrasive boards, flat slabs. Grinding slips. Oilstones	621.926 082	Preliminary reduction to lumps, chunks
025	Abrasive wheels, discs, drums etc. Buffing discs. Sanding discs. Grinding wheels. Grindstones	083	Coarse reduction, breaking, crushing
Principal divisions		084	Intermediate, secondary reduction. Breaking to smaller pieces. Medium fine crushing
621 922 1/ 8	Abrasive tools according to material 621.922.1/8 ≈ 621.921.1/ 8	085	Reduction to granular form. Fine crushing
923	Grinding, polishing and allied processes (and associated equipment)	086	Reduction to particle size. Fine grinding
Special auxiliary subdivisions			Pulverization
621 923 045	Grinding between centres	Principal divisions	
046	Centreless grinding	621 926.1	Breaking and crushing by hand. Breaking with hammers, pounders, pestles and mortars etc. —621.927.1
Principal divisions		2	Mechanical breakers and crushers in general
621 923 1	Grinding of flat and curved surfaces in general. Surface-grinding, with wheel (as substitute for milling, filing etc.)	3	Jawbreakers. Breakers with shearing anvil
2	Rough grinding. Preliminary trimming, burring etc.		Crushers and mills with rollers, cones, balls etc. Roller mills (gyratory breakers, rolling crushers). Ring mills. Centrifugal ball mills.
3	Intermediate, semi-fine grinding. Facing	4	Mortar mills. Pug mills. Edge runners
4	Fine grinding. Finishing. Smoothing		Impact crushing mills. Stamp mills. Stamp batteries. Star crushers. Hammer mills.
5	Honing (and hones). Superfinishing	5	Disintegrators
6	Edge and tip grinding. Tool grinding, sharpening		Ball mills with screens. Ball drums. Barrel or tube mills. Vibratory ball mills. Aerofall mills.
7	Polishing. Lapping. Buffing. Burnishing (extra-bright, mirror-finish). Roll-polishing	7	Compound mills
924	Grinding and polishing machines (for cleaning, sharpening, providing surface key etc.). Bench grinders. Brush cleaning. Sandblasting etc.	76	Mills with shear or rubbing action. Friction mills. Disc, cone and bell mills. Drag mills etc. Worm, screw or auger mills —621.927.76
2	Grinders with flat or plane surface and linear motion. Reciprocating, oscillating grinders, sanders etc. Continuous grinders, with endless band or belt	8	Superfine reduction mills with ancillary separating devices
3	Face-grinding machines and equipment with rotary disc. Rotary sanders, finishers etc. 621.924.3 ≈ 621.924.5	88	Air-swept pulverizers (pulverizers with air current for particle removal). Eddy mills. Vortex mills
5	Cylindrical grinding and honing machines	927	Comminution of soft materials. Crushing. Grinding. Milling. Pulverizing —631.333.92; 631.361.8; 631.363.2; 664.7
56	External grinding machines etc.	Special auxiliary subdivisions	
57	Internal grinding machines etc.	621.927 082/ 086	Degree of comminution or size reduction 621.927.082/086 ≈ 621.926 082/086
6	Special profile grinding machines 621.924.6:621.833 Gear grinders	Principal divisions	
7	Cleaning and polishing in revolving drums. Barrel finishers. Tumblers	621.927.1	Crushing and grinding of soft materials by hand —621.926.1
8	Brush cleaning. Scratch and scaling brushes and brushing machines. Metal brushes etc.	3	Grinding plant and equipment with millstones
9	Erosion forming, blasting equipment. Sandblasting. Shot-blasting etc. Blast machines and equipment —621.547 and references there	4	Milling, crushing and grinding plant with rollers
Special auxiliary subdivisions		7	Small special-purpose mills. Coffee-grinders, pepper mills etc. 621.927.7 ≈ 621.926.7, i.e. 621.927.76 Worm or screw mills, e.g. meat mincers —641.512
621.924.9.023	Abrasive particles. Sand, shot etc.		

621.928 Separating, sorting, sifting, screening equipment. Sieves, screens, meshes. Separators. Extractors
—622.72; 66.06; 66.07

Special auxiliary subdivisions

621.928.028 Separating parts or elements. Screen decks, accessories

.1 Bar or grating screens. Grizzlies

.2 Perforated plates. Riddle-plates

.3 Wire mesh or gauze screens

.4 Screening cloths or filters

.7 Control screens (oversize, guard, check screens)

Principal divisions

621.928.1 Separation technique in general. Sifting methods based on various properties

.11 Separation, sorting, picking by hand (e.g. stone-picking)

.12 Density difference methods. Gravity sorting

.13 Size difference methods. Sizing, size grading. Dimensional sorting

.14 Methods based on difference of resistance to fluid flow. Separation by air or liquid current

.17 Separation methods based on adhesion

.2 Sieves. Screens. Riddles. Sieving and screening techniques and equipment

.21 Stationary sieves and screens

.22 Continuous sieves and screens (endless mesh belt etc.)

23 Reciprocating sieves and screens. Jigging, shaking, vibrating screens. Rocker screens etc.

.24 Cylindrical and prismatic sieves and screens. Rotary screens. Drum or trommel screens. Conical sieves etc.

.26 Roll screens (roll-bar screens). Live-roll grizzlies

.3 Centrifuges. Centrifugal separators Cyclone separators and classifiers. Hydro-cyclones Gas cyclones. Whizzers. Hydro-extractors
—621.928.93; 648.32; 66.066 4; 66.067 5

4 Separation by means of water, washing Water separators, graders, classifiers. Elutriators
—622.75/ 77

44 Concentrators. Thickeners
—66.082 2

45 Classifying or sizing by combined water current and sedimentation

.46 Settling Settling cones, ponds etc

47 Washing in water current, running water Strainers

48 Trough washing. Table washers Launder washers
—622.763

5 Flotation separation and separators Separation using interfacial tension
—622.765

6 Separation and classification by air current Vortex separators Air-current separators

7 Electrostatic separation and separators
—621.359

8 Magnetic separation and separators Magnets as separators

9 Dust separation, extraction and collection Dust extractors Dust collectors
—628.511 and references there

92 Dust separation without filter Gravity-type extractors and collectors

93 Centrifugal dust separation Cyclone dust extractors and collectors

94 Dust separation with cloth filter (dust bags, tubes etc.)

95 Dust separation with dry filter (except cloth)

96 Dust separation using resonance effect, baffles etc

97 Dust separation using liquids, including wet filters

621.929 Mixing and blending of solids or semisolids. Amalgamation of solids with liquids
—66.063

.2 Blade, knife, paddle mixers. Blungers etc.

.3 Worm or screw mixing machines

.7 Vibrating, rocker, shaker mixers

.93 **Saws, sawing and similar cutting techniques**
—621.96/.98; 631.342; 674.053

Special auxiliary subdivisions

Some of the following auxiliaries derive from the list at 621.9

621.93.021 Hand saws and slicers in general, including handles and frames

.022 Machine saws and slicers in general, including holders and frames

.023 Blades in general: shape and parts (except teeth)

.024 Saw teeth. Blades according to teeth. Toothed blades (except heat saws). Setting, truing, sharpening etc.

.025.7 Hard-edged blades. Hard-tipped teeth. Hardmetal, cermet and diamond teeth

.026 Sawing using abrasion or heat. Wire rope saws. Abrasive cutter discs (cutting sheets). Heat saws (friction or fusion saws) Electric arc saws

.066 Tensioning devices. Blade tensioners

Principal divisions

621.932 Hand saws and sawing

.2 Hand stiff saws. One-man cross-cut saws. Woodworkers' saws

.3 Pull saws (slack saws). Two-man cross-cut saws. Rip saws

.4 Smaller span saws, frame saws, bow saws Metal-cutting saws. Hacksaws. Locksmiths' frame saws. Gardeners' frame saws. Pruning and lopping saws. Woodworking frame saws. Hand fret-saws. Coping saws

.5 Larger span saws, frame saws, bow saws. Foresters' saws. Felling and logging saws. Builders', carpenters', joiners' frame saws. Hand turning saws, sweep saws. Mitre saws. Bevel saws

933 Reciprocating machine saws (stroke-cut machine saws). Power-driven stroke saws Rigid, stiff-blade reciprocating saws Nibbling saws. Scroll saws

.2 Pull, draw-stroke or slack-blade reciprocating saws. Machine saws with spring counterpull

.3 Bow saw machines. Hacksaw machines

4 Power-drive bow saws and hacksaws

5 Machine turning saws, sweep saws Scroll saws with turning stroke. Power fret-saws Jig saws

6 Gang saws. Saw gangs

7 Nibbling saws with gang feed

934 Circular saws. Rotary saws

3 Circular saws with work fed to the saw blade (non-stroke circular saws)

.4 Circular saws with saw blade brought to the workpiece (circular stroke saws) Traversing circular saws. Portable circular saws etc

5 Circular saws with both work feed and saw traverse

8 Oscillating circular saws (wobble saws, drunken saws)

9 Dished and domed saws. Concave saws Barrel saws. Cylinder saws

935 Band saws

1 Vertical band saws

.2 Horizontal band saws

936.4 Cable saws. Wire rope saws

.6 Chain saws

937 Slicers. Slicing
—641.512

2 Hand tools and equipment for slicing and cutting
—672.7

621 937 3	Reciprocating machine slicers and cutters	621 97	Hammers and presses. Design and construction of tools and machines (for cold working, hot working, forming, pressing, stamping etc.)
4	Circular, rotary slicers and cutters		
5	Band slicers and cutters		
6	Cutting wires. Tools with cutting wires, e.g. cheese cutters	972	Hand hammers. Mallets. Mauls —674.058
941	Lathes. Lathework. Turning, facing, boring etc.		621.972.075 Hammer heads (weight, form, general balance etc.)
	—674.057		
	621.941.025 Turning tools, cutting-irons etc.	.3	Single-head hammers. Pein, claw hammers etc. Club hammers. Scaling and chipping hammers
21	Facing lathes	4	Two-hand hammers (metal and stone-head hammers). Sledge-hammers
22	Centre lathes. Engine lathes	.7	Mallets. Mauls (malls)
23	Semi-automatic and automatic lathes. Capstan lathes. Turret lathes	.974	Mechanical hammers Machine, power hammers
24	Universal lathes. Contouring, form-turning lathes. Copying, repetition lathes		Special auxiliary subdivisions
25	Screw-cutting lathes. Brass-finishers' lathes	621 974.062	Lift and drop mechanism of mechanical hammers (e.g. friction-operated)
26	Precision lathes. Watchmakers' lathes	.063	Hammer weight, ram or tup
27	Special-purpose lathes. Wheel-turning lathes		Principal divisions
	Lathes for turning cranks, multiaxial components. Turning and boring lathes	621 974 1	Lever hammers (e.g. for open forging, sheet-working). Front or face hammers. Side hammers. Tail hammers
	Horizontal boring machines	2	Drop hammers (falling tups) and stamps (e.g. for die forging, pile driving)
28	Vertical lathes. Vertical turning and boring mills	3	Portable, hand-held power hammers
95	Drills. Drilling, boring, reaming etc.	.4	Steam, air and gas hammers. Hydraulic hammers
	—622.24; 674 055; 679 8.055	5	Spring-operated hammers
951	Mechanical drilling in general. Hand boring tools. Hand drills, reamers etc.	8	Forging machines for complete forging operations. Reciprocating impact hammers
2	Awls. Bradawls. Spikes. Other plain boring tools		Pressure-forging, squeeze-forging machines
.3	Gimlets. Augers. Other twist-edged boring tools. Drill bits for wood, earth etc. Centre bits. Spoon bits. Dowel bits	976	Roll forging presses
4	Drills and bits chiefly for metalwork. Flat-end drills. Pointed-tip drills. Centre drills. Tap borers. Twist drills		Riveting machines. Hydraulic and pneumatic riveters
.47	Countersinks. Rose bits	.979	—621.884
5	Hand and breast drills and braces. Hand drills. Breast drills. Bit braces (carpenters' braces)		Presses: types, design, construction
6	Engineers' ratchet braces (and drilling pillars)		621 979:621.73 06 Forging presses
7	Reamers. Reaming		:621 983.5 Embossing presses
	—621.919		621.979.07 Press-tools. Dies, punch-tools and other formers
952	Drilling machines	1	Direct-action presses without stock displacement during press stroke. Lever presses. Toggle presses. Eccentric, cam and crank presses. Rack presses. Screw, fly and friction presses. Impact presses, stamps. Ram, piston or plunger presses
2	Radial drilling machines	2	Direct-action presses with stock displacement during press stroke. Rotary, drum or roller presses. Calendaring presses. Continuous, belt or band presses. Extruding presses. Batch-work ram presses etc.
.3	Vertical drilling machines (column and pillar drilling machines)	.3	Indirect-action presses. Jolt-ram and jolt-squeeze presses. Centrifugal presses
953	Portable drilling machines (hand-held power drills)		Injection-moulding presses
.957	Centring devices. Centre punches	6	—621.744.4; 678.057
96	Cutting without chip formation. Punching, blanking, shearing etc.		Presses for separation and expression of liquids. Filter presses. Drying presses
	—621.91		—66.067.4; 66 068
962	Hand implements for perforating. Hand punches, hole clippers etc.		Special auxiliary subdivision
963	Power punching and blanking machines	621.979.6 068	Filter vessels, containers. Draining tubs
	Machine punches, perforators		Strainers
	—621.979		Principal divisions
965	Shears and shearing in general, for parting, paring, trimming etc.	621.979.62	Closed presses. Frame, screen and trough presses
966	Hand and bench shears. Guillotine trimmers, snips, secateurs etc.	64	Semi-open presses. American box, step or stage presses
	621.966 ≈ 621.967	98	Sheet working, bending, stamping etc. (chiefly of metals). Sheet-metal working tools, machines and processes generally
967	Power shears. Machine shears. Power guillotines, trimmers, knibblers etc.		—621.771.23; 621.96; 621.97
.1	Parallel-bladed shears. Bloom and billet shears. Curve-cutting shears		Special auxiliary subdivisions
2	Oblique-bladed shears, scissors. Lever shears. Jaw shears	621.98 04	Techniques of sheet working
.3	Rotary disc shears. Circular-bladed shears. Strip shears. Flying shears		621.98.04 ≈ 621.7.04, e.g.
.8	Combination punching shears (blanking shears)		621.98.043 Die forming. Die pressing. Die stamping
968	Cleaving, slitting and splitting implements and machines. Axes. Hatchets. Choppers. Adzes etc.		
	—631.342; 672.719; 674.053		

621.98 (cont'd)	621.98.044 High-energy-rate forming (HERF). Sheet working by explosion forming, electromagnetic forming etc.	622.02	Physical properties of mineral, ore or rock —622'1
		.023	Consistency. Firmness. Hardness —622.83
Principal divisions		.2	Consistency and firmness properties. Hardness. Strength. Density. Elasticity. Cleavability. Cleavageability
621.981	Bending. Curving. Corrugating. Folding. Flanging. Beading. Seaming	.4	Hard, stable rocks
.2	Bending in roll-bending machines. Round-bending, curving machines	.6	Loose, unstable, running rocks. Brittle rocks etc.
.3	Corrugating, crimping machines and processes. Production of corrugated sheet	.026	Gettability. Workability. Drillability. Blastability. Cavability
.6	Folding, flanging, beading machines and processes. Pleating and creasing presses and tools. Edge curling. Seaming	.027	—622.23
.982	Straightening. Flattening. Planishing. Stretch-flattening. Beating out etc.		Treatability. Susceptibility to grinding, polishing etc.
.983	Cold hammer and press forming of sheet, strip and plate. Die forming. Stamping. Beating. Deep drawing. Embossing. Stretch forming	.03	—621.7.011; 621.9.011
	—621.97		Geological character of deposits
.1	Cold hammer working and beating (with or without formers)	.031	622.03'116 Horizontal. Gently inclined
.2	Panel beating and hammering out. Bossing (embossing). Chasing (enchasing) etc.	.032	'117 Inclined
3	Deep drawing. Combined blanking and drawing of pressings	.033	'118 Vertical or nearly vertical
.4	Spinning on the lathe. Metal spinning. Flow turning	.036	Stratified deposits. Seams. Seam measures. Single seams
.5	Press-die stamping. Shallow recessing.	.037	Veins. Lodes. Reefs
.7	Surface patterning, embossing		Massive deposits. Compacted masses
984	Stretch forming	.06	Non-compacted masses, e.g. clay, mud
	Hot hammer and press working (without chip formation)	.062	Placers. Detrital, alluvial and eluvial deposits (including lake beach and submarine placers)
	—621.73; 621.77	.063	—553.068.5
99	Screw thread forming. Screw cutting. Screw tapping		Denote location by (2) from Table I(e)
	—621.882.082; 621.941.25; 674 057	.2	Processes and technology of mining
.992	External thread forming (male threads). Screw-cutting processes and machines	.4	Sinking or drifting of mine workings.
.2	Screw cutting with chaser. Screw chasing	.5	Headframe. Machine. Stage etc.
.3	Die-cutting of screws. Bolt dies. Threading dies	.6	Cutting. Breaking. Winning. Loading.
.4	Screw-cutting with rotary cutters, e.g. hob type. Thread-milling. Thread-grinding	.7	Haulage. Transport
.5	Other thread-cutting machines. Whirling thread-cutters	.8	Cutting. Breaking
.7	Thread rolling		Winning
.8	Cold pressing and forging of threads		Face line
993	Internal thread forming (female threads) Nut tapping. Hole tapping		Loading
.1	Hand tapping and taps (taper and plug taps)		Face haulage
.2	Machine tapping (single-tool or multi-tool machines)		Surface haulage. Surface transport
622	MINING	622'1	—622.69
	—528; 549; 55, esp 552/553, 624 131	'11	State of mineral, ore or rock
Special auxiliary subdivisions		'112	—622.02
	<i>The -1/-9 auxiliaries listed under 62 are also relevant here</i>	'113	As deposited in the natural state
622 01	General theory. Geophysical and engineering aspects of mining	'116	Country rock or gangue
011 4	Soil properties and classification	'117	Ore body or infilling
012	622 011 4 $\geq$ 631 4	'118	Horizontal or almost horizontal. Gently inclined
013	Mining enterprises, mines	'12	Inclined
014	Economic-technical matters. Productivity, reserves, losses etc.	'13	Vertical or nearly vertical
015	Overall plan. Mining system, programme etc.	'14	Run-of-mine ore
016	Opencast working(s)	'15	Crushed. Ground
	—622 271.3	'16	Mechanically sorted, sized, graded
	Underground working(s)	'17	Concentrates according to particle size
	—622 272	'18	Middlings. Intermediate products
2	Shafts. Staple shafts. Exploration shafts. Holes etc.		Tailings. Waste (residue)
3	Crosscuts. Roadways. Adits. Crosses. Orts		Heat-treated. Roasted. Calcined. Sintered etc. Shaped agglomerates
4	Slopes. Gravity inclines. Chutes. Passes. Rises (raises)	Principal divisions	
5	Rooms. Chambers	622 1	PRELIMINARY INVESTIGATION. MINE SURVEYING AND MAPPING. EXPLORATION OF MINERAL DEPOSITS (SURFACE AND UNDERGROUND)
6	—622 268.8, 622 286		—550.8; 551.24; 552/553, 622 83; 624.131
	Faces. Production faces		622 1 528 Mine surveying. Mine mapping. Underground surveying
		12	—620.113 Mineral sampling processes
			Surface exploration, sampling and analysis
			Excavation of earth and overburden. Removal of debris, detritus, soil. Revealing of ore outcrops. Surveying of outcrop boundaries
		14	Surface cuts, trenching etc.
			Underground exploration, sampling and analysis. Surveying the boundaries of ore bodies
		.142	Using shafts, drifts, crosscuts.
			Geometrization of deposits

622 143	Exploratory drilling. Core sampling —622.24	622 233	Drilling for blasting —622.235; 622.243
622 2	MINING OPERATIONS. EXPLORATION, OPENING-UP, DEVELOPMENT, WORKING OF MINERAL DEPOSITS	4	Hammer drills and drilling. Jackhammers
.21	Claims and concessions —332.33; 347.249; 351.823.3	.5	Percussion drills and drilling. Mechanical, pneumatic, vibratory percussive drilling
22	Opening-up. Development work —622.261	6	Rotary, twist drills and drilling
221	Opening for opencast mining	.61	Rotary drilling by hand in general. Hand drills
222	Development work from the surface. Breaking ground	.62	Mechanically powered rotary drilling. Rotary drilling machines. Auger machines
223	Development work from shafts and drifts. Underground opening-out	.65	Rotary percussion drilling. Vibratory-rotary drilling
224	Development work in ore bodies. Driving raises (raises), chutes, crosscuts etc. in ore body	7	Accessories. Devices for forging bits, for coupling drills stems to bits. Sharpeners for bits
.228	Abandoned mines. Re-opening, re-equipping of mines —622.288	234	Various other methods of working
23	Mine excavations. Cutting. Rock drilling. Blasting —622.026; 622.24; 622.27	2	Thermal working. Heating, use of fire etc
Special auxiliary subdivisions		3	Working by freezing
622 23 05	Tools. Machines	4	Chemical methods. Leaching. Underground solution
.051	Drill bits (especially detachable bits)	.5	Hydraulic working. Rock-mass weakening
.1	Steel bits	.6	Hydraulic cutting, heaving, washout
4	Hardmetal insert bits —621.9.025.7	.235	Pneumatic working. Compressed-air methods. Airdox
.5	Hard-faced bits	Blasting. Explosives —662.2	
.7	Diamond bits. Roller bits —621.9.025.7	.1	Shotholes. Blasthole drilling —622.233.4/.6
.8	Shapes of bit	.2	Explosives. Blasting powder. Dynamite etc. Permitted, safe explosives
.052	Drill stems for detachable bits	.3	Treatment and handling of explosives
.053	Drill stems with fixed bits	.4	Charging of blastholes. Precautions. Tamping. Release of gases etc.
.054	Working elements and cutting implements of mining machines	.4	Firing. Detonation. Firing devices. Detonators (caps). Primers. Fuses —662.4
.2	Ploughs	.5	Mechanics of blasting. Calculation of charge and yield. Shape of charges
.3	Jibs	.6	Blasting operations, methods
.4	Drum-type elements. Bars	9	Storage of explosives in mines. Explosives magazines
.5	Cutting discs. Augers. Cutters or picks	.236	Rock-breaking methods and devices
.6	Inertial and percussive elements	.2	Physical breaking methods. Rock cutting, slicing, grinding, vibration
7	Flexible working elements. Rope saws. Chain saws	.3	Thermal breaking methods. High-temperature gas jet, thermite, plasma etc.
.8	Combined working elements and cutters	.4	Breaking by blasting
.055	Mountings. Jack columns. Jumbos. Booms. Frames. Rigs	5	Breaking by water jet
.056	Feed devices	.7	Electric and electrophysical breaking methods
.057	Devices for removing cuttings, chippings, dust. Suction, air jet, water jet etc. —628.511 and references there	.237	Trimming and cleaning of working faces
058	Rigging	.24	Drilling (boring). Drilling technique. Drilling technology —550.822; 621.95; 622.02; 622.143
.08	Operational time and speed. Life of machines etc.	Special auxiliary subdivisions	
Principal divisions		622 24.05	Drilling tools. Drilling equipment. Devices for transmitting the movement
622 231	Hand working. Digging. Hewing. Stripping Hand tools. Shovels. Scoops. Picks. Mattocks. Axes. Hammers. Crowbars. Wedges and mallets. Mauls. Plug and feather etc —621.865; 621.97; 622.234	.051	Drill bits. Reaming bits. Drill crowns
.232	Mechanical excavation. Hydraulic excavation. Cutting and loading machines. Continuous miners	4	Bits for percussive drilling, e.g. cross bits (cruciform bits)
2	Hammer diggers or hewers	5	Rotary bits. Roller bits
.3	Mechanical picks	62	Cutting bits, e.g. fishtail bits
.4	Cutting machines. Sawing machines. Coalcutters. Coal saws 622.232.4; 622.333 Cutting machines for ordinary coal	64	Diamond bits
.5	Hydraulic excavation. Machines using water jets. Coal bursters. Hydromonitors —622.234.5	.68	Jet bits
.6	Lateral or side-cutting machines	.7	Core drilling crowns
.7	Cutting and loading machines. Cutter-loaders. Block cutters. Sheeting cutters. Power loaders	.053	Devices for transmitting the movement to the drill. Drill rods. Drilling ropes, cables, strings. Drill pipes (flushing pipes). Drill stems. Couplings. Connectors etc.
.8	Continuous miners. Tunnelling machines	.054	Devices for generating movement
		.2	Above ground. Rotary tables. Walking beams. Driving gear
		.3	At the bottom of the borehole. Turbo-drills. Electric drills —622.243.92
		.056	Slackening-off devices
		.057.2	Elevators. Lifters
		.4	Drilling pressure meters. Drillometers
		058	Equipment for tool recovery (fishing tackle). Hoists. Fishing sockets. Bulldog spears, darts etc.

622.24.06	Preparation, making-up and cleaning of flushing media	622.257.2	Injection of oil or other heavy liquid
.082	Technical and economic data. Drilling efficiency, time, costs	.3	Sinking with artificial lowering of the water level
.084	Drilling systems. Technical factors in drilling. Bit loading (drilling pressure), rotation speed, amount of flushing etc.	.258	Equipping of shafts. Bunton and divider installation etc.
.085	Types of drilling. Twin, multiple, branch drilling. Offshore drilling	.26	Galleries. Roadways. Levels. Drifts and drives. Drifting and driving —622.281; 624.19
Principal divisions		.261	Drifting and driving in general: excavation and mining
622.241	Boreholes: description and details. Logging	.2	Underground driving. Ripping (raising of roof). Dinting (lowering of floor). Roadside packs. Stabilizing etc.
.242	Drilling rig equipment. Drilling towers. Derricks	.3	Development of opencast workings
.3	Onshore drilling towers. Derricks	.5	Cross-section: shape, size
.4	Offshore drilling towers. Drilling platforms. Drilling ships	.262	Simple driving with spiles (spills, forepoles) —622.281
.6	Flushing circuits. Flushing pumps. Flushing heads. Flushing reservoirs. Flushing tanks	.263	Driving with wooden shield. Wedging
.243	Deep boring systems	.264	Driving with metal and other shields
.1	Generalities. Theory. Dry boring. Flush boring	.267	Driving under adverse geological conditions (by special methods). In heavy or frozen rocks. With rock bump. With gas emissions, e.g. methane (firedamp). In goaf or gob etc. —622.272.6
.2	Directional drilling	.268	Roadways and stone drifts: various types
.4	Percussive drilling. Dry percussive drilling. Rapid percussive flush drilling	.1	According to purpose. Main haulage ways. Heads, headings. Passage for equipment. Human access, manholes etc.
.5	Rotary drilling. Core and spindle drilling	.2	Stone drifts. Crosscuts
.92	Drilling with an underground motor —622.24.054.3	.3	Levels
.93	Piling	.4	Slightly inclined roadways and drifts
.94	Fusion drilling	.5	Steeply inclined roadways and drifts. Ore passes. Inclined shafts. Slopes
.95	Combined drilling methods. Vibration and ultrasonic drilling	.7	Junctions of roadways and shafts Shaft stations
.244	Cleaning the cavings etc. from the bottom of the hole. Initial drilling of the mineral deposit. Formation testing. Setting-up and dismantling of drill rods	.8	Large vaults or chambers. Engine chambers —622.016 5; 622 286
.4	Cleaning the hole, flushing etc. during drilling	.27	Methods of working (surface and underground). Mining methods —622.23
.5	Initial drilling of the mineral deposits	.271	Surface working
.245	Starting-up	.1	Alluvial or placer working generally Sluicing methods
	Fitting-up the borehole. Casing. Rendering productive, on stream etc. Abandonment of borehole	.2	Quarrying
.1	Casing. Casing strings	.3	Opencast working (except quarrying) Cut and fill, pit, strip mining. Glory hole mining etc. —622 015
.3	Maintenance and protection of walls by circulation of liquids. Flushing with water, mud etc.	4	Clearing, excavating, removal of overburden etc. Dumps. Dumping. Dumping equipment
4	Sealing-off the exposed deposits. Cementation of the casing	5	Stackers, dump ploughs, overburden bridges etc.
.5	Treatment and cleaning of the borehole. Deplastering (removal of wash layer). Increasing the permeability of the ground near the borehole	.6	Underwater working (dredging)
6	Protection and preservation of borehole walls	.7	Hydraulic mining (hydraulicking). Sluicing, washing-out
.7	Closing the borehole at the surface	.8	Frozen ground working —551 34; 624.139; 624.14
.8	Prevention of blow-outs Casing heads	.272	Drift working (adit working)
	Filling-in, stopping-up of borehole.	1	Underground, subsurface working in general
	Abandonment of borehole	2	Stoping
.248	Breakdown, damage, faults during drilling. Fault prevention, control and repair —622 8	3	—622 016
.3	Irregularities in the borehole Soil movements Collapse Subsidence Caving-in	4	Shallow mines
5	Narrowing Filling-in with debris etc	5	Mines of average depth
6	Drill damage Jamming Compression Fracture	.6	Deep-level hot mines
25	Fishing Recovery or destruction of tools or casing left in the borehole	.7	Horizon mines (horizontal mines)
251	Shafts. Shaft sinking. Shaft raising	.8	Underwater mines
	Shaft sinking and raising in general Shaft dimensions —622 222	.273	Mining in adverse geological conditions. With rock bump. With rock, coal, gas outbursts. Mining of contiguous seams and groups of seams —622 267
252	Shaft works Normal sinking	.1	Working of horizontal or almost horizontal deposits (gently inclined deposits), e.g. ordinary coal seams
253	Sinking through water-bearing strata (aquifers), without pumping. Freezing and other methods	.2	Shortwall methods. Crossworking methods —622.273.3; 622 274.5
.254	Shaft sinking with complete sets of equipment. Sinking with shields. Sinking with combines	.21	Methods involving stowing or filling —622.274.4
.256	Shaft raising. Shaft deepening	.22	Stowing or filling methods
.257 1	Cementation. Grouting Injection methods and materials. Silicatization. Bituminization		Underhand and overhand stopes

622 273 23	Longwall methods	622 284	Support at working face. Roadhead support
.24	Longwall caving		Stope support. Props and stulls
.25	Cut and fill	2	Timbering. Timber props
.26	Bord and pillar method with stowing	.3	Crossbars
.3	Bord and pillar methods (pillar and stall methods). Roomwork with special layout, e.g. herringbone	.4	Facing
274	Working of vertical or steeply inclined deposits, layers, veins, lodes (including edge coal)	.5	Metal supports. Steel props etc
.2	Longwall retreating on the strike	.6	Combined support
3	Open stopes, without stowing or filling. Benchings, underhand. Bord and pillar methods. Sublevel stoping (substoping)	.7	Roof bolting with wood or steel bolts
.4	Filled stopes, square set and cut and fill	8	Withdrawal of support. Prop drawing
	Shrinkage stoping	285	Face support. Powered support
5	Caving methods. Top slicing. Sublevel caving	286	Lining and support of large chambers, stalls etc.
	Block caving		—622.016.5, 622 268 8
275	Combined mining systems with recovery of mineral in the solid state	288	Support of worked-out places
276	Working of mineral oil (liquid hydrocarbon) deposits. Petroleum extraction	.289	—622.228
	—622 24; 665.61		Auxiliary equipment. Support setting machines Tubbing laying machines etc
Special auxiliary subdivisions		622 3	INDIVIDUAL BRANCHES OF MINERAL WORKING. EXTRACTION OF SPECIFIC MINERALS, ORES, ROCKS
622.276.04	Offshore oil extraction		—550.8; 553
	—627.211	32	Liquid and gaseous minerals
.05	Tools, apparatus, equipment. Lifting towers	321	Liquid minerals in general
	Lifting masts. Types of production head	.322	Mineral springs
.054	Pumping equipment. Pumps Rod strings. Strainers. Sand and gas separators etc.		622.322 $\approx$ 553.7
Principal divisions		.323	Petroleum (with or without natural gas)
622 276 1	Extraction by natural pressure of oil	.324	Gases. Natural gas. Methane Carbon dioxide Inert, rare or noble gases (e.g. helium)
.2	Extraction by flow of oil from borehole (under natural pressure of water, gas, gravity)	.33	Solid minerals of organic origin
4	Oil extraction by artificial pressure. Secondary processes. Repressuring Gas or air drive. Water drive, flooding		Carboniferous minerals. Coals. Carbonaceous rocks
.5	Lifting methods. Spontaneous oil production	331	—662.62
	Gas or air lift. Lifting by pumps, scoops etc	332	Peat
6	Stimulation methods. Influencing the area near the well. Borehole treatment	.333	Lignite. Brown coal
.7	Well reconstruction when extracting oil	.335	Coals. Black coal generally
.277	Underground liquefaction and extraction by borehole. Dissolution (e.g. of salt deposits), melting, fusion	.336	Anthracite. Graphitized coal
.278	Underground gasification, vaporization	.337	Graphite. Black lead. Plumbago
.279	Extraction of natural gas (gaseous hydrocarbon) deposits	.339	Bitumen. Asphalt. Bituminous shales
	—622.24	.34	Oil-shale. Ozokerite (mineral wax) Resins
Special auxiliary subdivision		.341	Other organic minerals. Amber
622 279 04	Offshore natural gas extraction	.342	Metals and metalloids Ores (metalliferous minerals)
Principal divisions		.343/ 349	Iron ores Manganese ores
622 279 23	Extraction by natural pressure of gas		622.341.1/ 2 $\approx$ 553 31/.32
.4	Gas extraction by artificial pressure. Secondary processes. Gas or air injection	.35	Gold ores. Auriferous conglomerates Silver ores. Argentiferous conglomerates
.5	Lifting methods. Outflow from gas wells. Siphon pipes		622.342.1/2 $\approx$ 553.411/.412
28	Supporting and supports. Tubbing. Lining	.36	Other ores
	—622.22; 622.245; 622.25/ 26	.37	622.343/.349 $\approx$ 553.43/ 49
Special auxiliary subdivisions			Natural stones. Building stones. Monumental stones. Freestones
622 28 042	Supports according to cross-section		622.35 $\approx$ 553.5
	Trapezium, polygonal, ring, horseshoe supports. Arch or frame supports		—679.85
.043	Supports according to degree of resistance. Yielding and rigid supports	622.4	Various inorganic economic minerals and earths (mainly non-metalliferous)
.044	Roof bolting	.41	622.36 $\approx$ 553.6
.048	Caving	.411	Precious and semi-precious stones
Principal divisions			Gemstones
622.281	Support in development. Galleries. Roadways. Drifts		622.37 $\approx$ 553 8
	622.281.2/.6 $\approx$ 622.283.2/6		CLIMATE ENGINEERING IN MINES. VENTILATION, AIR CONDITIONING ETC. LIGHTING
.8	Withdrawal of support. Caving (forced caving)	.3	—622.8
.283	Permanent shaft lining and tubbing sets	.4	Ventilation and air conditioning in general
.2	Timbering. Timber sets	.5	Principles. Theoretical data. Types of damp and dust encountered. Quantities of air required. Air distribution
.3	Walling. Masonry lining		Mine gases, damp
.4	Concrete lining and tubbing sets	.51	Composition of firedamp
.5	Metal supports. Steel sets etc.		Mine dusts. Sources of dust formation
.6	Combined support and lining. Coffering and tubbing	.52	—616.24-003.6; 622.807; 628.511 and references there
			Air sampling. Dust determination and estimation. Composition of atmosphere. Instruments. Konometers (coniometers), dust counters, filter methods etc.
			Carbonaceous dusts. Coal dust

622 411.53	Stone dusts	622.611	Haulage and handling at the working face
.412	Means of detecting firedamp	.612	Loading. Filling of cars, tubs etc.
	—622.817	.619	Loading machines, equipment. Loaders, duckbills, scrapers, transloaders etc.
.413	Physical properties of mine atmosphere		—621.869.3/.4
.414	Nature of air flow. Air pressure.	.62	Haulage on roadways and tracks. Trams and tubs. Locomotives. Cable railways
	Measurement, instruments (e.g. manometers, anemometers)	.621	Devices for signalling. Central control and blocking systems
.416	Calculation of air quantities in mines (in relation to staff, output etc.)	.622	Primitive haulage, e.g. in baskets or sacks.
.417	Survey and measuring stations	.624	Transport by humans or pack animals
.418	Air conditioning		Gravity inclines (brake inclines)
	—622.481	.625	—622.625.5; 622.646/.647
.42	Natural ventilation		Underground railways and tramways. Cable, rope and chain railways
.43	Primitive ventilation, by heat and pumps	.1	Tracks, rails. Track construction
.44	Ventilation by fans, blowers, compressors	.24	622.625.1 $\approx$ 625.1
	—621.51/.54; 621.61/.63	.28	Rolling stock. Mine cars, trucks, wagons
45	Introduction and distribution of air through shafts, galleries and workings. Airways	.5	Mine locomotives
451	Mine ventilation networks		Cable, rope and chain railways. Cableways
.452	Introduction of air through shafts. Ventilation shafts	Special auxiliary subdivisions	
453	Air distribution in the mine. Airways. Ducts	622.625.5.05	Haulage ropes, cables
454	Methods, schemes of ventilation	.06	Haulage chains
455	Airtight barriers, dams. Air-doors. Air locks. Brattices. Duct and shaft closures and seals etc.	Principal divisions	
.456	Air leakages and their control	622.627	Underground trackless transport.
457	Ventilation of underground workings		Underground roads and vehicles. Shuttle cars
458	Ventilation of opencast workings	.64	<i>Details by :625.7/.8, :629.11...</i>
46	Other ventilation installations. Ozone apparatus. Air filters	.646	—622.26
.47	Lighting, illumination of mines. Miners' lamps	.647	Continuous and semicontinuous conveying
	—628.9; 683.8		Ore chutes, drawing holes and openings.
.471	Lamps with exposed flames. Lanterns. Oil lamps. Acetylene lamps	.1	Loading out of ore
473	Safety lamps. Davy lamps. Petrol or gasoline safety lamps. Acetylene safety lamps	.2	Conveyors etc.
474	Portable electric lamps. Battery lamps. Cap or helmet lamps. Hand lamps (electric torches)	.3	—621.867
		.4	Drag or scraper conveyors
475	Lamp rooms. Lamp cleaning, maintenance, trimming, filling etc.	.5	Belt conveyors
476	Permanent illumination underground, especially by acetylene and other non-electric methods	.6	Bucket conveyors
477	Permanent electric lighting	.7	Worm, auger or screw conveyors
	<i>Details by 621.32..., :628.9..</i>	.8	Trough conveyors
481	Heating of mineshafts	.9	Roller conveyors
.485	Water supply	.648.2	Shaking, oscillating, vibrating conveyors
489	Signalling, communications equipment	.3	Bunker conveyors. Conveyor trains
	—621.39; 628.975; 654; 658.284	6	Ejection conveyors. Centrifugal conveyors
622 5	MINE DRAINAGE. UNWATERING (DEWATERING)		Hydraulic conveying. Hydraulic winding. Coal pumps
	—622.84	.67	Pipeline conveying without carrying medium
51	Sources, composition and flow of mine water		Pneumatic transport arrangements
	Watertight barriers, dams. Sumps. Lodges etc.		—621.867.8
53	Mine water drainage		Hoisting. Winding. Vertical transport and haulage
531	Surface installations. Cornish pumps. Beam engines etc.	Special auxiliary subdivisions	—621.876
532	Underground pumps	622 67 05	Elements and devices for flexible transmission
536	Unwatering during shaft sinking	06	622 67.05 $\approx$ 621 85.05
537	Draining of flooded workings	07	Parts of conveying devices
58	Drainage in opencast mining		622 67.06 $\approx$ 621.86.06
583	Methods of drainage. Filters. Grout curtains	Principal divisions	Parts of lifts, hoists
586	Continuous drainage	622 672	622 67 07 $\approx$ 621.86 07
622 6	HAULAGE AND HANDLING. HOISTING	673	
	WINDING. SURFACE TRANSPORT		Ladders, stairs and other fixed devices
	622.6-052 Transport of personnel to and from working face		Winding gear. Pit-head, engine-house gear
	(from Table I(k) -05)		Winding engines. Head frames, winding towers. Head sheaves. Winding drums
	-8 Haulage, transport etc. according to motive power, propulsive force	674	Pulleys etc.
	(from 62-8)	675	Cage guides. Guide beams (spears). Buntions
61	Underground transport, haulage and handling in general	2	Loading stations. Shaft stations. Landings
	622 61 622 341 1 Underground transport of iron ores	.3	Pit bottoms (shaft bottoms)
		4	Pit-banks
		5	Decking and undecking of the winding cage
		6	Scotches. Car rams
		7	Turning at loading and banking stations
		8	Tipplers
		.676	—621.869.2
		678	Car cleaning
		.2	Shaft or pit doors
			Kep gears. Keps (catches). Tilting decks
			Various hoisting and lifting devices
			622 676 $\approx$ 621.876
			Use of hoists. Raising and lowering
			Raising and lowering of personnel

622.678.52	Cage winding	622.755	Wet centrifugal separation. Hydro-cyclone separation
53	Skip winding		—621.928.3
54	Skip-and-cage winding	762	Jigging. Jigging machines
.7	Lowering of supplies, e.g. timber, machines	763	Trough, table or launder washers (mainly horizontal water current)
68	Opencast transport		—621.928.48
.69	Surface storage, handling and transport of minerals (at or from the mining plant, pithead, well, quarry or mill, including pipeline transport)	764	Concentrating tables. Tabling
	—622.063.8; 621.875	.2	Fixed tables. Cornish buddles, slime tables etc.
	622.69'1 State of mineral to be stored or transported	.3	Band or belt tables. Vanners
	Details from 622'1	.4	Shaker tables. Rockers
691	Storage, transport etc. of natural gases Gas holders. Gas pipelines etc.	.5	Circular tables
	622.691 = 622.692	.6	Strakes. Tyes
.692	Storage, transport etc. of liquid minerals	7	Flow tables
	—628.12/.15; 665.6	.8	Tabling in connection with flotation
	622.692:622.323 Storage, transport etc. of petroleum		—622.765.6
2	Storage of liquid minerals. Containers tanks, reservoirs. Storage losses	765	Flotation Concentration methods based on surface tension
.4	Pipeline transport of liquid minerals. Liquid pipelines		—621.928.5
.5	Liquids terminals and their operation	Special auxiliary subdivisions	
693	Storage, transport etc. of solid minerals, ores	622 765 061	Flotation media, reagents etc. Frothers. Depressants. Activators. Regulators
.2	Storage of solid minerals, ores. Containers bins, sacks, silos, bunkers, hoppers	.063	Collectors
.4	Pipeline transport of fluosolids, suspensions, slurries, muds etc.		Kinds of flotation. Bulk, selective, direct, backward, primary, secondary and cleaner flotation
		.066	Defrothing Removal of flotation agents
622.7	TREATMENT, PROCESSING OF MINERALS. MINERAL DRESSING. ORE PREPARATION	Principal divisions	
	—622.027; 669.052	622 765 2	Oil flotation Processes using large quantities of oil with preliminary mixing of ore, pulp, oil and water
	622.7:622.337 Treatment of bitumens, e.g. oil-shale	3	Skin flotation (flotation using surface tension alone)
Special auxiliary subdivisions		4	Froth flotation
622 7 012	Consumption. Output. Efficiency	5	Other flotation processes Jigging, ionic, sinter and salt flotation. Processes combining oil flotation and magnetic separation (e.g. Murex process) etc.
	622.7.012 = 66.012	6	Flotation in connection with tabling
016	Chemical and textural composition of minerals. Methods of analysis, assay		—622.764.8
.017	Technological properties of minerals (e.g. washability)	8	Adhesion processes
05	Preliminary treatment. Transfer of mineral to concentration or separation plant	.766	Separation using heavy media Sink-float processes
.06	Separation media. Concentration reagents	.1	Pure liquids, e.g. carbon tetrachloride
.09	Penetration, introduction and recovery	2	Solutions, e.g. of calcium chloride
	Supervision and control by means of sampling	4	Suspensions, e.g. barytes, sand. Sludge
	622.7.09:620.113 Sampling processes, basis and errors	.767	Mud. Emulsions
Principal divisions			Pneumatic separation. Air-current separators
622 72	Sorting. Sifting. Picking		—621.928.6
	—621.928	.52	Processes using weak air currents or none
721	Hand picking	.53	Sedimentation
723	Mechanical sorting		Processes using essentially vertical air currents
725	Electronic sorting	.55	Processes using rotary, cyclonic air currents
	622.725:535.3 Sorting by reflection, refraction etc.		Centrifugal air separation. Trickling, centrifugal and vibrating screens. Screens with air circulation
73	Comminution. Crushing Grinding Milling Pulverizing	62	—621.928.3
	—621.926	.63	Pneumatic jigs
	622.73:621.926.3 Comminution in crushers and mills with rollers, cones, balls etc.	64	Processes using essentially horizontal air currents
.74	Classification and sizing by means of sieves and screens. Sieves and screens for separating, grading, washing	66	Pneumatic tables
	—621.928.2		Processes using dispersion in gases
.75/.77	Processing by means of liquids and gases. Wet processing. Separation by setting of solids under gravity	.771	Air-buoyancy processes (e.g. air-sand process)
	—621.928.3/.8		Mechanical separation. Dry separation, based on shape or surface form. Methods using elasticity. Methods based on cleavability, hardness, fragility. Centrifugal separators. Spiral or screw separators
.751	Classification by settling, in general	.772	—621.928.1/.3; 622.755
.752	Sedimentation in water. Methods and equipment using weak water current		Combined separation processes. Leach-precipitation- flotation (Mostowitsch process) etc.
.753	Elutriation. Methods and equipment using a vertical or almost vertical water current	.775	Separation using solvents. Cyanidation
	—622.762	.776	Amalgamation
		.777	Electrostatic separation
			—621.359; 621.928.7

622 778	Magnetic separation —621.928.8	622 826	Fires and fire hazards at surface storage, handling and transport installations. Fires in spoil-banks, slagheaps, stockpiles, tanks etc.
78	Heat treatment of ores and minerals —669.162.1	.827	Fires and fire hazards in gas, oil and equipment of boreholes. Borehole fires. Well fires
.781	Preparation of ores and additions for roasting, sintering, shaping etc. Mixing with fuel, binding agents etc.	.83	Ground and rock movements. Rock pressure. Subsidence. Geostatic and geodynamic phenomena —550.3; 551.24; 622.02/.03
.782	Roasting. Calcining		
.784	Suspension, flash or fluosolid roasting		
.785	Sintering	.831	Pressure and displacement effects. Fractures, faults etc.
.788	Manufacture of shaped agglomerates (briquettes, pellets, nodules). Briquetting, pelletizing etc. Sintering of green shapes Details by :662.8.05...	.2	Compression effects. Abutment pressure Stress caused by cavities, shafts etc.
.79	Further preparation of ores and minerals. Aftertreatment. Storage. Disposal —669.16	.3	Strains and stresses. Rock pressure. Heave. Rockbursts
.791	Chemical treatment. Weathering. Corrosion	.6	Caves breaking surface. Forming of fissures, cavities etc.
.793	Treatment of water	.833	Ground movements associated with shaft sinking, drilling and driving operations. Creep. Stress distribution 622.833:622.25 Caused by shaft sinking
.794	Elimination of excess of water and dust. Drying. Dedusting —622.807.1	.834	Ground movements caused by exploitation and working. Collapses. Cave-ins Subsidence. Upheavals 622.834:622.273.21(09 1) Historical accounts of ground movements in relation to stowing and filling
.2	Filtration of slimes or overflow. Dewatering apparatus, e.g. suction, centrifuge, filter —66.067.3		
.3	Removal of slimes, slurries, mud etc.		
.4	Drying —66.047		
.7	Dust separation by gravity, centrifugal force, filters etc. —621.928.9	.837	Damage due to mining operations 622.837:624.21 Damage to bridges
.795	Mixing and blending processes. Mixing of ores, concentrates —621.929	838	Special safety measures against subsidence, rock movement etc. 622.838:69 059.22 Measures against damage to buildings
622 8	MINING HAZARDS. ACCIDENTS. DAMAGE. HEALTH PROTECTION AND SAFETY IN MINES —313.1; 331.82; 351 823 3; 362.18; 613 6; 614.8; 616-057,62-78; 656.08	5	Safety pillars
807	Underground dust control in general. Dust precautions —622.411.5, 628.511 and references there	6	Safety measures according to method of working. Harmonic extraction. Retreating methods. Continuous methods
1	Dry dust collection. Dedusting —622.794	839	Damage falsely attributed to mining. Damage due to weight of buildings, subsoil movement, vibration etc
2	Wet dust collection and suppression	84	Flooding and hydrologic regime in relation to rock movements —622 5
4	Spraying		
5	Water infusion. Infusion with other liquids	.841	Influence of mining on water sources. Groundwater variations, exhaustion etc.
7	Steam infusion. Infusion with other vapours	.843	Cave-ins and subsidence in relation to drainage
8	Use of wetting agents	844	Cave-ins and subsidence in relation to dissolution
81	Dust control by improving working processes	.847	Water penetration. Flooding (inundation)
812	Gas and dust explosions underground. Mine explosions and safety measures —614.83, 622 412	85	Damage to vegetation and animals due to mining —502 7
814	Firedamp explosions	86	Mining accidents. Safety precautions. Relief and rescue work —614 82; 614 89 (and references at 622 8)
816	Coal dust explosions. Sulphide dust explosions	861	Accidents involving the miner's own movement or action. Falls. Injuries from tools
817	Outbursts of gases and liquids from boreholes	862	Accidents due to external causes. Injuries from explosions, fires (burns), rock falls etc
3	Prevention and control of explosions		Hazards from water, gas. Drowning
4	Dusting with stone or rock dust	864	Suffocation. Injuries from vehicles, moving machinery. Electric shocks etc
5	Gas emission control	865	Precautions, safety measures against mining accidents in general
818	Grading of mines according to dust and gas content. Mine categories	867	Emergency exits, escapeways etc (provision, inspection, maintenance)
82	Measures for containing, localizing damage. Automatic barriers. Sealing-off		Relief organization. Rescue work (methods, equipment etc.) First aid posts. Personnel equipment, e.g. breathing apparatus, gas masks
822	Underground fires. Fires in mines. Mine firefighting —614 84	868	Recovery work after fires etc. Unsealing
2	Mine fires and fire hazards in general		
3	Spontaneous fires (fires due to spontaneous combustion). Exogenous fires (externally caused fires). Fire detection and control		
824	Fire prevention		
	Fires and fire hazards in mine supports, accessory installations and equipment underground		

622.87	Occupational health hazards in mining Preventive and palliative measures, e.g. modified working methods, control of ambient conditions —613.6	623.4 014	Mobility characteristics Active, passive, self-propelled Amphibious —62-182
872	Pathogenic effects of dusts 622.872.616 24-003 6 Dust as cause of pneumoconiosis	016	Performance. Range, speed characteristics etc.
878	Industrial noise in mining (e.g. effects of percussion tools)	017	Operational reliability Manoeuvrability etc.
88	Control, regulation of mining damage. Reconstruction. Damage assessment, evaluation. Compensation	018	Testing and examination of weapons and military equipment
		02	Fire control. Ballistic preparation and tables
		021	Target acquisition, detection, identification Interception
		.022	Ballistic and topographic preparation Artillery survey. Weather, meteorological conditions —528
623	MILITARY ENGINEERING —355/359	023	Predicting Coordinate determination. Ranging Target velocity determination
Special auxiliary subdivisions		024	Observation, adjustment of fire
623-1/-9	Characteristics of military machines, equipment etc <i>Details from 62-1/-9</i>	027	Guiding of missiles —623 4 055; 623 465
623 09	Special defence and assault equipment (of fortifications, vehicles, ships etc.)	028	Target making
.093	Armouring. Armoured equipment, vehicles etc.	.03	Cartridge magazines Feed mechanisms
.094	Armament. Arming (with weapons). Armed vehicles etc.	.04	Breech block and breech ring Loading mechanisms
Principal divisions		05	Sighting and sights (gun sights) Laying mechanisms. Tracking studies
623 1/.7	LAND-BASED MILITARY ENGINEERING. ARTILLERY	052	Fixed sights, adjustable and non-adjustable. Open sights (back and fore sights) Optical sights
623 1/ 3	Field engineering. Fortifications. Defence works	.2	Back sights Leaf sights (flap sights)
.1	Fortresses. Permanent fortifications. Fortified lines, areas	.3	Fore sights
11	Principles. Theory. Sections. Profiles. Contours. Plans. Layout. Flanking defences (outworks) in general. Defilading	5	Optical sights (e.g. telescopic sights)
12	Details of fortresses and permanent fortifications Masonry, walling Earthworks. Cover from fire. Blindage. Gun emplacements. Approach obstacles	.053	Predictor sights
126	Various defence constructions Gun emplacements. Casemates Bastions Turrets Gun mountings	054	Gun laying. Laying mechanisms
127	Approach obstacles Palisades Tank traps Ditches	1	Traversing gear
13	Fortified lines, strong points and communications	2	Elevating gear
15	Temporary fortifications and fieldworks in general	8	Computing devices for laying mechanisms. Directors. Predictors
.2	Assault and defence works. Siege works. Field fortifications. Trench works	055	Base equipment for guiding missiles —623.4.027; 623 465
.24	Trenches. Zigzags, saps etc Communication trenches. Simple excavations. Foxholes, dugouts etc. —624.134	.06	Firing gear. Trigger mechanisms Ejectors Extractors
25	Breaching batteries. Breaches Assault works	.062	Manual firing gear. Cocking mechanisms
3	Land minefields. Field obstacles. Flooding		Triggers. Striker pins (firing pins) Lock Safety catches
36	Land minefields. Minelaying. Mine clearing. Mine detection —623.454.36	.063	Mechanical and automatic firing gear
38	Field obstacles. Traps. Wire entanglements Pitfalls etc.	.067	Recoil mechanisms. Muzzle brakes —623.435; 623.57
.39	Flooding as means of defence	.068	Devices for reducing noise, flash etc. Noise suppressors, dampers (silencers). Flash eliminators
623 4	ARMAMENTS. ORDNANCE. ARMS. WEAPONS. GUNS. ARTILLERY. SMALL ARMS. SIDE ARMS. ARMoured AND OTHER SERVICE VEHICLES. AMMUNITION AND WAR GASES. GUIDED MISSILES AND ROCKETS	.069	Extractors. Ejectors
Special auxiliary subdivisions		07	Various questions concerning firearms Accessories. Rifle supports, tripods, aiming rests. Embrasures, crenels, gun-ports. Tamping tools, ramrods, bolt levers. Pouches, ammunition holders Holsters, pistol cases etc.
623.4.01	Design fundamentals. Characteristics and tests of weapons and military equipment	077	Barrel cleaning, maintenance Pullthroughs etc.
.011	Military characteristics	08	Projectile, rocket and guided missile parts, fillings, attachments —623.45/.46
.012	Geometric parameters. Choice of size —62-181	.081	Projectile body or case
.013	Weight characteristics —62-183	.2	Heavy-case (HC) projectiles. Kinetic-energy projectiles. Armour-piercing projectiles
		.3	Medium-case, medium-capacity projectiles
		.4	Light-case, high-capacity projectiles
		.082	Warheads <i>Especially applicable to 623.46</i>
		.2	Inert and exercise warheads
		.3	Armour-piercing warheads
		.5	Fragmentation warheads. Rod and continuous-rod warheads
		.083	Projectiles according to fillings —623.452; 662.1/.4
		.1	High-explosive (HE) missile fillings
		.2	Nuclear, fission devices (atomic missiles). Thermonuclear, fusion devices (hydrogen-bomb missiles)

623.4.083.3	Pyrotechnic fillings. Tracer, signalling, illuminating devices (flares, coloured markers, star-shells etc.). Incendiary rockets. Smoke-generating, fog-generating missiles etc. —662.1	623.428.83	Rocket-launching gear in aircraft —623.419; 623.46
.4	Chemical-warfare, gas fillings —623.459	.43	Gun carriages and mountings. Military vehicles
.5	Biological-warfare, e.g. bacterial fillings —623.458	Special auxiliary subdivisions	
.8	Propaganda material in missiles, e.g. leaflets	623.43.02/.07	Propulsion. Equipment. Instrumentation 623.43.02/.07 ≈ 629.1.02/.07
.084	On-board missile guidance systems. Gyroscopes, auto-pilots etc. Target coordinators	Principal divisions	
.085	Missile driving bands and sabots	623.431	Ammunition wagons and limbers. Ammunition containers (boxes, cases, barrels, chests) —623.457.4
.086	Fins, tails. Trajectory-controlling devices	.432	Mobile mountings —623.941.4
.087	Cluster devices. Bomb clusters	.433	Ground mountings
Principal divisions		.434.5	Ship and deck mountings (except on warships) —621.941
623.41	Weapon systems. Artillery and rocket weapons	.7	Aircraft mountings
	623.41.355.46 Artillery for combined, sea-and-air operations	.8	Vehicle mountings (except on railways)
	:629.11.032.1 Tracked artillery	.9	Railway mountings
411	Early forms of artillery. Culverins, falconets, bombardards etc. —623.428.1	.435	Components of gun carriages and mountings. Platforms. Pedestals. Recoil gear. Buffers, anchoring devices etc. —623.4.067; 623.57
.412.2	Anti-tank armament systems. Anti-tank artillery	.1	Cheeks. Transomes (cross-pieces)
.6	Tank armament systems. Tank artillery	.2	Cradles. Recoil slides
413	Field artillery. Mountain artillery	.3	Components for manoeuvring, positioning. Carriage and truck wheels. Rolling, sliding, swivel mountings etc.
.2	Light field guns	.436	Separate manoeuvring appliances.
.4	Mountain guns		Manhandling tackle. Levers, pulleys, hoists etc. Ammunition barrows. Trolleys
.6	Heavy and medium-heavy field guns	.437	Service, transport and supply vehicles <i>Further details of vehicles by :629...</i>
414	Landing guns	.1	Bicycles
.415	Armament systems of fortifications and fortified lines	.2	Motorcycles (motor-bicycles), solo or combination (sidecars etc.)
.416	Heavy artillery. Siege and coastal artillery. Long-range guns 623 416.355.458 Artillery for maritime defence. Coastal artillery	3	Animal-drawn vehicles (e.g. horse-drawn vehicles)
417	Naval artillery —623.941	.4	Motor vehicles
418 2	Anti-aircraft armament systems	41	General purpose vehicles. Jeeps etc.
4	Aircraft armament systems	.42	Tractors, wheeled or tracked
419	Missile or rocket armament systems —621 453/.456; 623.428 2; 623 428 83; 623.46	.44	Trucks, freight vehicles Tankers. Recovery vehicles. Launching vehicles
42	Ordnance	.46	Troop carrier vehicles. Personnel carriers
421	Types of gun	5	Towed, passive vehicles. Trailers. Vehicle and missile transporters. Radio vehicles etc.
.2	Cannons. Mounted guns	438	Armoured vehicles <i>See note at 623.437</i>
3	Howitzers	.1	Armoured infantry or personnel carriers
.4	Mortars	.2	Wheeled or semi-tracked vehicles with armament Armoured cars. Scout cars, reconnaissance vehicles
.8	Recoilless guns	3	Fully tracked vehicles with armament. Tanks (of all types, but not self-propelled guns) —623.438.4
422	Guns according to method of loading and operating Muzzle-loading guns Breech-loading guns. Multiple-barrel guns (mitrailleuses, revolving cannons etc.)	32	With heavy armament. Heavy and medium tanks (cruiser and infantry tanks)
5	Automatic guns, e.g. Vulcan	.322	Heavy tanks
423	Gun tube and barrel construction	.324	Medium tanks
22	With trunnions	33	With light armament Light tanks
24	Without trunnions	34	Reconnaissance tanks
3	Internal form Bore	.35	With machine guns only (e.g. Bren carriers)
32	Smooth bore	.36	Mine-detecting or mine-clearing vehicles (including remote-control vehicles)
34	Tapered bore	.37	Armoured recovery vehicles
36	Rifled bore	.39	Flame-thrower vehicles
7	Chamber	4	Armoured vehicles with other equipment 623 438.39 624.21 Bridge-laying tanks
427	Guns and mountings adapted for training, exercises Dummy barrels —623 447, 623 456	.5	Self-propelled guns
428	Guns and projectors without explosive propellants	7	Armoured trains
1	Primitive forms, e.g. ballistas (large catapults) —623 411, 623 446 8	44	Amphibious tanks and armoured vehicles
2	Launching ramps —623 419, 623 46	441	Hand weapons. Firearms. Small arms. Side arms. Protective equipment
8	Projectile release gear in aircraft —623 556		Early and primitive firearms Blunderbusses. Harquebusses (arquebusses, hackbuts, hook guns) etc. —623.446
81	Torpedo-launching gear in aircraft	442	Muskets. Carbines. Rifles Machine guns
82	Bomb-release gear in aircraft Bomb racks		Special-purpose firearms

623 442.1	Muzzle-loading rifles and carbines	623.451 7	Bombs, torpedoes etc. for dropping from aircraft
2	Breech-loading non-automatic rifles and carbines		—623.463.5
.3	Repeating rifles and carbines	72	Aerial torpedoes
4	Automatic and semi-automatic rifles and carbines. Machine guns		—623.946
	—623.422.5	.73	Aerial mines, depth charges
45	Automatic and semi-automatic rifles and carbines	74	—623.95
46	Light machine guns		Aerial bombs Freefall bombs Gliding bombs. Projectiles with guiding surfaces
47	Heavy machine guns. Tank machine guns		623 451.74.083.2 Atomic, nuclear bombs
5	Special-purpose rifles. Anti-tank rifles. Sniper rifles. Spotting rifles. Rifle grenade-launchers	.452	—623.454.8
	Competition rifles (match rifles), for marksmanship contests	454	Manufacture of artillery ammunition
6	Smooth-bore firearms. Hunting, sporting guns		Assembly Complete rounds. Cartridge cases
.7	Firearms of special construction. Collapsible, dismantlable guns Concealed or disguised, e.g. walking-stick guns. Rifles for rocket bullets. Noiseless, silenced firearms Firearms loaded without case	1	—623.457; 662.2/.4
443	Hand guns. Pistols Revolvers	21	Pyrotechnic devices for fuses (fuzes) and incendiary, smoke-generating, signalling and demolition uses. Mines Atomic weapons
	—623.447		Matches (match cords). Fuses (fuzes), string-type
1	Early forms of pistol. Single-shot, one-shot pistols. Rotating, multi-barrel pistols etc.	.2	—662.45
.2	Repeating pistols. Revolvers (with rotating chamber)		Igniting devices
35	Automatic pistols	22	—662 42
.37	Machine pistols Submachine guns, e.g. Thompson guns (Tommy guns)	21	For propellants in guns. Caps, tubes, primers etc.
6	Signal or flare pistols (e.g. Very pistols)	22	Igniters containing explosives
444	Side arms (cut-and-thrust weapons)	.23	623.454.22-83 Electric igniters
	—672.711		Triggering devices, e.g. for firing booby traps, mines, bombs. Bomb pistols, mine switches, trips etc.
1	Early forms of side arm. Halberds. Partisans. Hatchets. Battle-axes etc.	.24	Detonators Boosters. Gaines Exploders
.2	Swords. Sabres. Cutlasses Broadwords. Duelling swords, rapiers, foils etc.	.25	Fuses (fuzes) for projectiles. Time fuses.
3	Bayonets		Pressure fuses. Mechanical, e.g. clockwork fuses. Proximity fuses, e.g. optical, thermal, radio, acoustic, magnetic. Percussion fuses.
4	Lances	3	Electric fuses
6	Knives. Daggers. Dirks. Poniards. Stiletos	.35	Mines Demolition devices
	Spring-blades (flick-knives)	36	Mine chambers. Camouflets
95	Sheaths. Scabbards		Portable land-mines. Portable booby-traps.
445	Protective equipment Armour, helmets etc	.37	Anti-tank, anti-vehicle mines. Anti-personnel mines
1	Body armour. Suits of armour. Breastplates, cuirasses. Light armour Chain mail, hauberks, coats of mail Armoured clothing (e.g. bullet-proof vests)		—623.36
2	Armoured headgear. Helmets. Steel helmets (tin hats) etc.	.38	Demolition devices Portable charges
3	Accessory protection (carried but not worn). Shields	.4	Petards
.446	Various primitive weapons	.41	—623.68
1	Hitting, bruising, crushing weapons. Flails. Clubs. Maces. Cudgels. Bludgeons.	.42	Mine clearance by explosion
3	Truncheons. Batons. Knuckledusters etc.	.44	Light and signal devices, markers
4	Blowpipes	.5	Fire-pots
5	Bows and arrows. Longbows. Crossbows	.7	Torches Flares. Flame-floats
	Throwing or hurling weapons Darts, spears, javelins etc.	.71	Signalling rockets
7	Boomerangs	.72	Smoke. Smoke generators
8	Primitive ballistic devices. Slings, hand catapults etc.	76	—623.775; 662.17
	—623.428.1		Fire and incendiary devices as weapons of attack
447	Stage and toy weapons. Mock swords etc.		Flame-throwers
	Harmless, blank-charge devices. Blank-firing guns. Cap pistols etc.		Incendiary devices
.45	—623.427; 623.456; 662.421.21		—662.14
	Ammunition. Pyrotechnic devices. 'A', 'B', 'C' weapons: atomic (nuclear); biological (bacterial); chemical	8	Protection against flames and incendiary devices. Fireproof clothing etc
	—341.67; 351.753; 662		—614.842.86; 614.895
451	Artillery projectiles. Shells. Bombs		Atomic, nuclear, thermonuclear weapons
	—623.46	.86	Active rays Ionizing radiation Radioactive contamination, fallout. Detection of nuclear explosions
1	Early forms. Spherical projectiles. Round shot (e.g. cannonballs), shells etc.	.455	—623.451.74 083 2
.2	Grape-shot. Case-shot. Shrapnel		Protection against nuclear weapons and aftermath
.3	Elongated projectiles. Arrow projectiles	.1	—355.58
.4	Shells	.2	Ammunition for small arms. Hand ammunition
.5	Mortar projectiles	.6	Bullets. Pellets. Shot
		.8	Cartridge cases
		.456	Hunting cartridges. Shot cartridges
			Rifle grenades. Hand grenades
			Parade, ceremonial ammunition. Training, practice ammunition. Ammunition for exercises. Dummy rounds, blanks etc.
			—623.427; 623.447
			623.456:623.451.3.083.4 Gas projectiles for exercises

623.457	Equipment for assembly, packing and maintenance of ammunition —623.483	623.462.5 .6	Air-to-air missiles Air-to-underwater missiles —623.451.72/.73
.2	Machines for assembling complete rounds	.7	Underwater-to-air missiles
.3	Adjustment operations. Automatic fuse-borers, adjusting keys etc.	.8	Underwater-to-underwater missiles —623.946
4	Packing of ammunition for despatch and transport —623.431	.463	Rockets
.5	Loading into ammunition magazines, containers. Ammunition belt loading, unloading	.2	Anti-tank rockets
.6	Breaking down of ammunition. Fuse neutralization	.3	Artillery rockets
.7	Feeding, sealing, obturation of projectiles	.5	Aircraft rockets (air-to-air and air-to-surface) —623.451.7
.458	Biological weapons. Poisons, bacteria etc.	.465	Guidance systems
.2	Poisons, toxins (except war gases) as weapon of attack. Poisoning of water, food etc.	.3	Self-contained guidance. Pre-set, inertial, magnetic, celestial systems etc.
.3	Bacterial weapons. Infection of food, animal fodder etc. with bacteria, microorganisms.	.5	Command guidance. Wire guided, beam rider, radio, radar, television systems
459	Infected dusts, mists	.7	Homing systems
	Chemical weapons. War gases (poison gases): detection, protection, decontamination —547; 66	.72	Active homing (radar, sound)
.32	Non-persistent, evanescent gases	.73	Semi-active homing (radar)
.33	Persistent gases	.75	Passive homing (sound, heat, infra-red radiation, light)
4	Kinds of war gas according to action	.466.3	Flight curves. Ballistic curves. Pursuit curves (hound-and-hare, fixed-lead pursuit)
42	Asphyxiant gases. Phosgene etc.	.5	Proportional navigation. Constant bearing (collision course)
43	Irritant gases. Lachrymators (tear gas). Sternutators, e.g. arsine	.467	Stability and control
.44	Paralysant gases	.2	Launching of missiles and rockets.
.45	Vesicant gases. Mustard gas. Lewisite etc.	.3	Assembling, handling, pre-launch testing
.46	Nerve gases	.5	Tower and silo launching
.5	Detection of war gases	.7	Ramp, rail and table launching
6	Individual protection against war gases 623.459.61/.68 $\approx$ 614.891/ 898, e.g. 623 459 64 Protection of respiratory system. Gas masks. Breathing apparatus (from 614.894)	.8	Gun or tube launching. Sled launching.
	.65 Protection of the body from gas. Whole-body gas protection. Protective clothes, e.g. anti-gas jackets, trousers, capes. Anti-gas stretcher covers (from 614.895)	.468	Multiple launching
69	Protection of animals against war gases	.48	Vehicle, ship and raft launching
7	Collective anti-gas measures	.483	Underwater launching
72	Gasproof shelters —699.87	485	Warheads, fillings and attachments —623.4.082/.083
74	Protection of equipment, food and water from gas. Gasproof containers, bags, sacks	623.5	Tools. Instruments. Ordnance factory plant. Storage. Maintenance. Trials. Experiments, failures and accidents
76	Laying of gasproof sheeting, for passage over gas-contaminated ground	51	Ordnance factory plant and equipment —355.73/.74
8	Decontamination —616-08; 628 512	.52	Storage. Ordnance depots Field storage etc
82	Decontamination of humans, personnel	522	BALLISTICS. GUNNERY. THEORETICAL AND EXPERIMENTAL PROBLEMS —531.55/.58; 662 311
.84	Decontamination of animals	.524	General and comparative investigation of artillery weapons, rockets, guided missiles
.86	Decontamination of supplies, equipment	.525	Internal ballistics. Effects of powder. Propellants —531.57
.46	Decontamination of ground, water, air	.526	Ballistic measurements. Pressures, muzzle velocity, temperatures etc.
462	Guided missiles. Rockets. Guidance systems, flight curves, launching. Warheads —621 453/ 456, 623 4 08, 623 419, 623 428 83	.53	Determination of charge
1	Guided missiles	.532	Ignition of propellant in gun. Misfire Cook off. Premature ignition of projectile filling
12	Surface-to-surface missiles	.533	Effects of propellant combustion Erosion
122	Tactical missiles	.535	Intermediate ballistics
124	Anti-tank missiles	54	Gun blast phenomena
14	Artillery missiles	542	Flash and smoke
143	Strategic missiles	544	Gun and projectile behaviour at short exit, e.g. jump
145	Medium-range missiles	.548	External ballistics —531.55/.56, 533.6; 534
2	Intercontinental missiles	55	Time measurement and apparatus Ballistic chronographs —529.7; 531 761; 681 11
3	Surface-to-air missiles. Anti-aircraft, anti-missile missiles	Special auxiliary subdivisions	Experimental apparatus and equipment
4	Surface-to-underwater missiles —623 946, 623 955	623 55 02	Computation and compilation of ballistic tables, range tables etc
	Air-to-surface missiles —623 451 74	.021	Gunnery. Laying and firing
		.022	Fire control. Ballistic tables (theory and practice) Cf. 623.4.02
		.023	Target detection, identification. Interception
		.024	Ballistic preparation. Meteorology
			Topographic preparation. Artillery survey —528
			Observation. Ranging Fuse (fuze) adjustment

623 55.025	Fire control devices	623 624	Other radio and radar countermeasures
027	Guiding of missiles		Neutralization e.g. by jamming
028	Target making		—623.77
Principal divisions		.64	Topography. Cartography. Surveying
623 55.1	Fire power. Fire control		—355.47; 528; 623.4.022; 91
.552	Land firing (firing from ground)	642	Terrain and its tactical properties
553	Underwater firing		Topographic ground reconnaissance. Visual surveying
.554	Firing at sea	.643	Topographic maps. Map work. Orientation
555	Infantry firing		Target referencing
556	Firing from aircraft	644	Special maps and topographic documents
557	Bombing (aerial bombing)		Maps for troops and headquarters. Route maps. Intelligence maps. Town plans (street maps). Aerial photographs, photoplans, photomaps etc.
	—623.428 82; 623.451.74		Devices and instruments for orientation of troops in the field. Surveying instruments
56	Effects of and on projectiles. Experimental studies	646	Methods of determining initial geodetic data to provide support for combat actions
56.1	Effects on animate objects, living targets	.647	Clearing and making of obstructions
56.2	Effects on inanimate objects, non-living targets	.67	Ammunition and bomb disposal
1	On fixed targets, earthworks etc	68	Protection, demolition and repair of buildings, construction works etc.
2	On masonry		Protection, e.g. with sandbags of concrete blocks
.3	On armour-plating	683	Demolition or destruction as means of defence (e.g. bridge demolition)
.4	On concrete		—623.457.37
.5	On movable targets (except armour), e.g. vehicles	.685	Repair and restoration of essential structures
.6	In water, against underwater objects		
.7	Against explosives, propellants	623.7	MILITARY AND NAVAL AVIATION
56.5	Effects on projectiles. Fragmentation. Blast		CAMOUFLAGE ETC
.1	In confined spaces	.74	—358.4; 359.38
2	In the air		Military and naval aircraft
.3	At the target. Damage to projectile	.741	—629.7
.5	In earth	.742	Lighter-than-air aircraft (aerostats) in general
.6	In water		Balloons. Moored (e.g. barrage balloons), towed, free balloons
56.6	Underwater ballistics	.743	—623.748
	—623.947.95	.746	Airships (dirigibles)
1	Torpedoes		Heavier-than-air aircraft (aerodynes)
.2	Underwater bombs and shells		623 746-519 Heavier-than-air aircraft with remote control. Pilotless, unmanned aircraft
.3	Depth charges. Charges on sea bed	.12	
.4	Missiles and rockets, in water	.13	Landplanes
.5	Underwater explosions. Effects on sea bed, surface (water projected above surface) etc	.14	Seaplanes
56.7	Controlled projectile trajectories	.16	Amphibious aircraft
	—531.55	.17	Gyroplanes. Autogiros. Helicopters
.2	Initial stage	.2	Reconnaissance aircraft. Observation aircraft
5	Mid-course	.3	Fighter aircraft. Fighters, interceptors, combat and pursuit aircraft
8	Terminal stage	.4	Bomber aircraft (including dive-bombers)
.57	Behaviour of mountings during firing. Recoil etc.	.5	Transport aircraft. Freight, supply, troop, personnel carrier aircraft. Hospital aircraft
	—623.4.067; 623.435	.6	Anti-submarine aircraft
59	Ranges. Firing practice equipment	7	Trainer aircraft
.59.1	Ranges in general. Firing ranges (shooting ranges, butts). Bombing ranges. Proving grounds (test ranges). Underwater test ranges	.8	Tanker aircraft
.59.2	Simulators and trainers	.748	Devices for obstructing enemy aircraft
59.3	Targets		Barrages, cables, nets etc.
.5	Moving targets		—623.742
.51	On land	.76	Air defence technique
52	On water	.762	—355.469
.53	In the air	.764	Anti-aircraft defence systems
59.4	Markers' shelters and covers	.77	Anti-missile, anti-rocket defence systems
623 6	FIELD ENGINEERING EQUIPMENT AND OPERATIONS. LINES OF COMMUNICATION. RADAR COUNTERMEASURES. MILITARY TOPOGRAPHY	.773	Camouflage
61	Military communications. Troop control		—355.585; 358.36; 677.027 468
.61.5	Communication centres: apparatus, crosses etc.	.775	Passive camouflage. Deceptive coloration, designs etc.
.61.6	Document communication stations. Military post stations	.776	Artificial fog. Smoke-screens
.61.8	Automatic troop control systems. Military information systems. Command posts.	.777	—623.454.5; 662.17
.7	Control centres. Information networks		Blackout
	Devices for interconnection of military computers (including mobile computers) with communication channels		—355.585; 628.978.7; 645.39
62	Radio and radar countermeasures		Active camouflage. Decoy construction
.62.3	Weapon systems or complexes as countermeasures against enemy radio and radar systems	623.8/.9	Dummy structures
			—623.829.5
			NAVAL ENGINEERING
			—355.46

623.8	NAVAL CONSTRUCTION. NAVAL BASES. WARSHIPS AND OTHER VESSELS —629.12
Special auxiliary subdivisions	
623.8.01/.08	Design details, parts etc. 623.8.01/.08 $\approx$ 629.01/.08
623.81	Naval dockyards and workshop establishments. Coastal and floating installations and forts —627.096; 627.3; 629.128
.816	Temporary installations, e.g. floating harbours, Mulberry harbours
.817	Coastal, foreshore and offshore strongpoints. Marine forts, redoubts. Sea walls etc.
.818	Floating bases. Floating batteries
.82	Combat craft (fighting ships) and auxiliary vessels. Warships
.821	Combat force command ships. Battleships
.822	Pursuit vessels. Cruisers. Aircraft-carriers
.3	Cruisers
.7	Aircraft-carriers —629.123.6
.823	Destroyers. Corvettes. Frigates. Light anti-submarine vessels. Submarine chasers. Convoy escort vessels
.824	Armed coastal defence vessels. Gunboats. Sloops
.825	Torpedo-carrying surface vessels. Torpedo boats. Coastal motor boats. Motor launches. E-boats
.826	Small patrol and reconnaissance vessels. Scout vessels. Fishery escort, patrol and protection vessels
827	Underwater vessels. Submersibles. Submarines —629.127
828	Transport, depot and auxiliary vessels
.2	Landing craft. Amphibious transport craft
5	Transport ships. Freight, supply, troop, personnel carrier vessels. Cargo ships. Troopships
6	Hospital ships
.7	Training ships
8	Maintenance and repair ships. Power station ships
.829.1	Net-laying and boom-laying vessels —623.93, 623.95
.2	Minelaying vessels
3	Minesweepers. Mine-hunting vessels
5	Decoy craft. Q-ships (mystery ships)
83	Hulls and their accessories —623.9; 629.12.011
84	Masts. Sails. Rigging —629.12.014
85	Propulsive and associated machinery —62-8; 621.1, 621.43, 629.12.03
623.9	MATERIAL AND EQUIPMENT OF NAVAL FORCES. PROTECTION AND ARMAMENT OF VESSELS. SUBMARINE DEFENCES
91	Armouring, armour-plating of vessels. Armouring of all kinds, including conning towers, turrets, decks
92	Partitioning of hull and superstructure. Cellular construction. Compartments. Bulkheads
93	Outer defence of vessels and parts. Anti-submarine lines. Submarine defence in general. Booms. Nets. Anti-torpedo and anti-mine devices —355.465, 623.829.1; 623.973
935	Methods and devices for concealment of vessels —623.454.5; 623.77
936	Defence systems against mass-destruction weapons —623.454.86
94	Naval artillery and armaments —623.4; 623.554
941	Artillery installations on board

623.941.1	Munitions magazines
.2	Munitions hoists
.3	Gun positions on board. Conning towers. Fixed gun turrets, half-turrets. Sponsons —623.433; 623.434.5
.4	Mobile turrets —623.432
.942	Shipboard training and practice firing. Training equipment
.946	Naval torpedoes, tubes and accessories —355.465; 623.451.72; 623.566.1
Special auxiliary subdivisions	
623.946-1/-9	Mechanical characteristics etc. <i>Details from 62-1/-9, e.g.</i> 623.946-5 Control mechanisms. Steering, discharge, depth-control gear
623.946.08	Torpedo parts, fillings, warheads
Principal divisions	
623.946.2	Spar-type, boom-type, towed and other early forms of torpedo
.3	Self-propelled torpedoes (surface or submarine)
.6	Torpedo tubes (surface or submarine)
.95	Mines and depth charges. Minelaying. Minesweeping —355.465
.952	Submarine mines in general. Mines moored or at rest on sea bed. Ground mines
.953	Free-floating mines. Contact mines
.955	Depth charges. Control of explosion depth. Depth charge release gear —623.566.3
.957	Minelaying, mine-sowing techniques —623.829.2
958	Minesweeping, mine-searching and clearing techniques —623.829.3
.959	Methods of countering, deactivating mines. Mine clearance. Mine disposal. Degaussing (demagnetizing of ships)
.97	Naval attack and defence methods not included elsewhere
.973	Fixed harbour defences. Anti-submarine nets, booms, traps etc. —623.93
.974	Frogmen
.983	Detectors of underwater objects (e.g. submarine detectors). Asdic, sonar etc. —681.883 623.983-621.396 With radiocommunication. Radio beacons, buoys etc.
624	CIVIL AND STRUCTURAL ENGINEERING IN GENERAL. SUBSTRUCTURES. EARTHWORKS. FOUNDATIONS. TUNNELLING. BRIDGE-BUILDING. SUPERSTRUCTURES <i>Under 624 is classed information about the practice of civil and structural engineering, whereas 69 is for building materials, trades and construction, and 72 is for architectural design and kinds of building according to purpose</i>
Special auxiliary subdivisions	
624-1	Civil engineering details -11 and -18 from 62-1.. are applicable here. 624-1 $\approx$ 624.1 except for -11 and -18, e.g. 624-15 Foundations (from 624.15)
-2/-9	Details of construction machinery and equipment <i>Details from 62-2/-9</i>

624 01/ 07	<i>The .0 special auxiliaries have similar meanings under 624 and 69; preferably, use .01, .04 and .07 (which relate to all structures generally) mainly under 624, but .02, .03 and .05 (which relate primarily to buildings) mainly under 69</i>	624.041.61	Support reactions. Lateral, shear forces
		.62	Shear lines. Intersection forces
		.63	Moments. Moment lines
		.65	Influence lines
		.66	Elastic, deflection curves. Deflection lines
01	Structures and structural parts according to material and method of construction —624.9; 691; 693/694	68	Comparability conditions. Lines of pressure
011	Structures in materials of organic origin		Thrust lines
1	Wooden structures —674, e.g. 674.11	042	Stress distribution diagrams. Resistance moment diagrams
7	Structures in organic materials other than wood. Structures in straw, bamboo, cork, paper, fibrous materials, textiles, rubber etc	.1	Calculation of loads and stresses
78	Structures in plastics	.2	Loads and stresses in general. Internal stresses. Foundation pressure. Uplift
8	Structures in materials of animal origin. Structures of skins (hide, leather), dung, shells, bones etc.	.3	Static loading. Dead load or weight (structure plus floor load plus internal fittings)
.9	Structures in organic mineral materials (e.g bitumen, asphalt)	.4	Incidental loads. Live, superimposed or moving loads (e.g from vibrations, impact, traffic)
012	Masonry structures in natural stone, cast stone, artificial masses, ceramic materials	.5	Wind load. Snow load. Ice load. Water load (e.g. rainwater load)
1	Structures in natural stone. Natural stone masonry 624.012.11/.12 $\approx$ 553.5/.6	.6	Temperature effects. Thermal stresses etc
.2	Structures in artificial stone. Cast stone masonry	.7	Various other static effects. Stresses due to deformations and construction process
.3	Structures in precast concrete —666.97	.8	Effects of openings, notches, holes, on stress conditions
.35	Structures in precast reinforced concrete	.044	Stress due to ground movements, earth tremors (earthquakes), seismic effects
36	Structures in prestressed precast concrete	.046	Dynamic loads
4	Structures in concrete, in-situ concrete (ordinary concrete), mass concrete	.047	Calculation of deformation, strain (elastic and plastic deformations)
.44	Structures in mass concrete	.048	Structural strength. Load-bearing capacity
45	Structures in reinforced concrete	05	Stability. Rigidity
	Ferro-concrete structures —666.982		Movable structures
46	Structures in prestressed concrete		Model statics. Use of models in structural design
6	Glass structures 624.012.6 $\approx$ 666		Site, organization and plant. Construction methods 624 05 $\approx$ 69.05 See note at 624.01/.07
8	Structures in earth, mud, clay. Adobe and pise structures. Structures in baked clay	07	Structural elements. Load-bearing members
	Brick structures	071	Elements for taking only a single axial stress
014	Metal structures —624.012.45; 693.8	.2	Flexible elements. Elements for suspended structures. Flexible carrying members
.1	Cast iron structures	.22	Ropes. Suspension ropes
2	Steel structures 624.014.2.078.4 Jointed steel structures (riveted, welded, screwed)	.23	Cables. Suspension cables
		.25	Chains. Suspension chains
7	Structures in light metal (and light metal alloys)	.3	Rigid elements
016	Structures in composite materials. Composite structures	.32	Elements under tensile stress. Tension bars
02	Structural parts and elements 624.02 $\approx$ 69.02 See note at 624.01/.07	34	Rigid carrying members. Suspension rods etc.
03	Size, permanence, location and shape of structures 624.03 $\approx$ 69.03 See note at 624.01/.07	072	Elements for taking compressive stress (without buckling stress). Compression bars etc.
04	Structural design. Graphical and analytical statics for investigation and calculation of structures —531.2	1	Elements for taking biaxial stresses
041	Establishing the general design. Systems and grids. Statics of structures in general	.2	Plates and discs in general —624.073
.1	Internally and externally statically determinate structures	.21	Elements subject to bending stress. Beams.
2	Statically indeterminate structures in general	22	Girders. Joists etc.
.3	Internally statically determinate, externally statically indeterminate structures	23	Overhanging beams, one end free. Booms
.4	Externally statically determinate, internally statically indeterminate structures	24	Brackets. Cantilevers
5	Internally and externally statically indeterminate structures	.31	Fixed beams, supported at two or more points. Truss and trestle beams. Lintels
.6	Support reactions. Shear forces. Moments. Influence lines. Deflection curves. Diagram of resistance moments	.32	Continuous beams on three or more supports with constant or variable moments of inertia
		.322	Beams on elastic supports or foundations (e.g. railway track). Gerber girders
		.323	Plate girders
		.326	Elements subject to bending or flexural stress and axial stress (without buckling stress)
		.327	Short columns. Piers. Jambs. Thick walls
		.328	Arches. Arched beams and girders
			Fixed arches etc.
			Hinged arches etc.
			Continuous arches. Continuous arched beams and girders
			Bow-string arches (tied arches) etc.
			Arches etc. partially stressed during construction. Prestressed arches

624.072.33	Frames. Plane frameworks. Parts of frames and frameworks <i>Denote static aspects by :624.04..., structural aspects by :624.07...</i>	624.078.34	Construction joints. Horizontal, course joints. Vertical, butt joints
		.36	Rigid joints (with no play)
		.37	Dummy joints
.331	Hinged frames	.4	Connections of structural members (and their calculation). Timber, steel joints etc. Junction points
.332	Simply supported frames. Rampant frames		Form of interface between members. Butt, lap, dovetail joints etc.
.335	Continuous frames	.41	Linking, securing elements. Pin, dowel, nail, screw, bolt connections —621.882; 621.884/.886
.336	Portal structures. Frameworks. Portal frames. Trusses. Vierendeel girders	.42	Glued joints
.338	Parts, components of frames and frameworks. Tie-beams. Posts. Chords. Nodes	.43	Riveted joints
.4	Elements subject to combined stresses	.44	Welded joints
.44	Bent or angled members. Corner pieces	.45	Screwed, bolted joints (nut-and-bolt joints)
.45	Fixed or restrained beams subject to bending or flexural stress and tensile stress	.46	Compound and multiple joints (using mixed methods, e.g. glued and pinned)
.46	Curved beams and girders (e.g. for bridges curved in plan)	.48	Joints and connections by mechanical action (e.g. prestressing, shrinkage) —621.88.084
.7	Girders of closed hollow section. Hollow girders. Box girders. Tubular girders (girders of round section)	.49	Structural bearings (and their calculation)
.9	Bracings. Longitudinal bracings. Transverse bracings. Cross bracings. Diagonal bracings 624.072.9:624.042.4 Bracings against wind, snow, ice and water load	.5	Fixed bearings. Rocker, pivot, pin bearings
		.52	Movable bearings. Roller bearings. Pendulum bearings (self-aligning bearings). Ball bearings. Plain, sliding or friction bearings.
.073	Plane load-bearing structures. Plates. Slabs. Discs —624.072	.54	Rolling contact bearings —621.822
.11	Freely supported plates	.6	Structural hinges (and their calculation) —621.888
.12	Fixed or clamped plates	.62	Cylindrical hinges. Spherical joints (ball pivots)
.13	Plates on point supports (plates on pillars, columns etc.)	.64	Slip joints. Pin joints. Cantilever joints, brackets
.131	Plates on one support	.7	Structural anchorages (and their calculation) —624.137.7; 624.153.7
.132	Plates on more than one support	.72	Anchor plates. Tie plates. Anchor rings
.135	Plates on mushroom-headed supports (e.g. mushroom ceilings)	.74	Anchor piles. Tie rods. Anchor blocks (dead men)
136	Plates on supports without mushroom heads (e.g. slab ceilings)	.8	Stiffenings (and their calculation)
2	Plates on elastic supports	.82	Stiffening beams, stiffeners
4	Continuous plates	.84	Stiffening rings
.5	Plate-like frame or grid structures. Beam grillages (e.g. timber gratings). Diagonal grids. Ribbed slabs, floors etc.	Principal divisions	
6	Plates with interruptions, e.g. holes, openings	624.1	SUBSTRUCTURES. EARTHWORKS. FOUNDATIONS. TUNNELLING
8	Thin plates, layers, panes, panels. Thin-plate structures. Thin walls	.12	Rock engineering and mechanics —624.19 624.12 ≈ 624.13, e.g. 624.121 Rock mechanics (from 624.131)
.074	Three-dimensional load-bearing structures	13	Geotechnics. Soil mechanics. Earthworks. Frozen ground engineering
.1	Bridge-shaped structures	.131	Soil mechanics. Structural soil technology. Technical and economic studies
.2	Domes. Cupolas. Parts of domes. Lanterns. Soffits. Squinches. Pendentives etc.	1	Origin of soil. Engineering geology.
3	Vaults. Vaulting. Parts of vaults. Springers. Ribs. Groins. Voussoirs etc.	2	Mineralogical, geological and biological factors in assessing soils
4	Continuous membrane structures. Stressed skin structures. Shells	21	Classification of soils for engineering —552; 553.5
42	Stressed skin structures. Folded plate structures (prismatic structures)	22	Cohesionless soils (frictionless soils). Stones. Pebbles. Shingle. Gravel. Sand. Rock dust. Rock flour
43	Shells	23	Cohesive soils. Clays. Mud. Silt. Loam. Marl (soil)
5	Three-dimensional frameworks (space frames). Lattice or grid structures (e.g. geodesic domes, lamella roofs)	.23	Loess. Loess clay
075	Elements whose state of stress must be checked for stability	24	Naturally cemented soils. Conglomerates. Bog iron ore
2	Elements subject to buckling stress	25	Rock-type soils. Sandstone. Shale. Slate. Schist. Limestone. Marl(stone). Chalk. Granite
22	Compression members (braces, struts etc.) in frameworks	.26	Topsoil. Humus
23	Long columns. Pillars, posts, stanchions	.27	Other soils with organic admixtures. Slime. Ooze. Bog soils. Sapropel. Peat. Coal
24	Articulated, jointed columns (composed of several members joined)	.3	Soil survey, examination. Soil sampling. Soil testing
25	Compression chords of frameworks	.31	Survey of terrain. Site investigation
3	Elements subject to instability, tilting, overturning	.32	Geophysical exploration techniques —550.83
4	Elements subject to both bulging and buckling	.33	Scrapes. Trenches
078	Structural connections, joints, links and their calculation	.34	Trial bores. Boreholes
3	Masonry joints (and their calculation)		
32	Joints allowing play, movement. Expansion joints. Running joints. Settlement joints		

624 131 34 (cont'd)	621.131.34 ≈ 622.24	624.137	Banks etc Retaining structures.
35	Pile-driving tests		Transition-works between different ground levels. Securing of earth masses
.36	Soil sampling	2	Banks. Batters. Slopes. Banquettes (berms)
37	Soil analysis. Laboratory tests. Model tests	.4	Sheeting. Strutting. Sheet piling (ground beams). Shaft walls. Metal, timber, masonry walling. Fascine work Stone packing
38	Field tests and investigations		Pitching Paving
.381	Penetration tests (deep sounding)	.5	Retaining walls. Revetments
.382	Foundation soil tests		—624 164
383	Trial loading of bearing surfaces (vertical and horizontal)	.6	Anchorage Rock anchors
384	Trial loading and test driving of piles		—624 078 7, 624.153 7
.385	Dynamic investigations	7	Impervious walls Diaphragm walls
386	Earth pressure measurements	138	Improvement of the bearing capacity of soils (ground improvement). Soil compaction, consolidation, stabilization
387	Pore water pressure measurements	.2	Mechanical methods
4	Soil properties	.22	Infilling Ramming. Tamping. Punning Rolling
	624.131.4 ≈ 631.4		Vibrating Vibroflotation
	<i>The parallelism is valid at medium-edition level; in the full editions, there are some differences</i>	23	Mixing soil with various materials
5	Soil statics. Soil dynamics	.24	Soil-cement stabilization
52	Foundation pressure. Soil loading. Pressure or load distribution. Hydrodynamic forces. Bearing capacity	26	Injection (pressure grouting)
522	Pressure or load distribution. Foundation pressure	29	Insertion of piles
.523	Hydrodynamic forces. Uplift. Capillary pressure. Buoyancy. Pore water pressure	.3	Explosive compaction (deep blasting)
.524	Bearing capacity. Permissible earth deformation	.4	Physical methods. Dewatering, drainage of ground
.526	Settlement analysis	.5	Chemical methods. Stabilization with resins, soaps, salts etc
53	Earth pressures, active and passive. Pressure distribution. Soil stability. Planes of rupture. Landslips	.139	Electrochemical methods. Electro-osmosis
	—624.139.3	.2	Frozen ground engineering
532	Active earth pressure, thrust	.22	—551.34; 622.271.7, 624.14
.533	Passive earth pressure, resistance	.24	Effects of frozen ground on engineering works and structures
.534	Effect of soil deformation on earth pressures		Frost heave Differential swelling of soil
.535	Effect of vibrations on earth pressures	26	Subsidence, settling, caving, collapse caused by thawing. Frost boil
536	Effect of pore water movements on earth pressures. Hydrodynamic earth pressures		Effects of freeze and thaw on the bearing capacity of the ground
537	Soil stability. Planes of rupture (slip surfaces) Landslips	3	Soil stability on slopes in frozen ground regions (in seasonally frozen and permafrost areas)
.54	Soil rheology. Ground movements and deformations	.5	—624.131 53
55	Soil vibrations, perturbations Earth tremors Causes (natural and man-made) Effects	.6	Artificial disturbance of active and permanently frozen layers (e.g. removal of snow, vegetation, topsoil)
	—550 34, e.g. 550.348	.62	Control of frozen ground
6	Water in the soil (groundwater). Groundwater movement: flow, percolation, seepage etc. Effects: erosion, capillary effects, pressures		Stabilization of active layer Control of permafrost depth. Insulation. Artificial freezing
.7	Applications of soil mechanics Earth or soil as building or structural material. Earth as aquifer in construction work	64	—624.157.4
.8	Technical and economic preparatory work	65	Control of ice formation (icing) in the ground
	—528, e.g. 528.063, 528.48		Artificial frost zones
132	Removal and transport of soil Earthmoving operations	.68	Control of ice formation (icing) in streams and rivers
	<i>For earthmoving equipment —</i>	.7	Thawing of frozen ground (methods and equipment)
	621 877/.879		Frozen soil as structural or engineering material
	—622.23; 622.27	.14	Snow and ice engineering. Construction works and materials in cold climates
1	Loosening and removal of soil by hand		—624.139 and references there
3	Mechanical loosening and removal of soil	142	Effects of low temperatures. Frost action
	624.132.3:621.879 Soil removal by digging or dredging machines		Frost damage
.6	Transport of soil	.143	Measures against frost and ice formation (icing)
	—622.6	2	Measures against frost (anti-frost, defrosting methods)
.133	Lowering of ground level. Excavation. Setting out, clearing, stripping and auxiliary works	3	Measures against ice formation (icing).
.134	Cutting of channels, trenches, ditches. Trenching		Anti-icing methods (mechanical, thermal, chemical)
	—623.24; 626.131	.5	Removal of ice. De-icing methods
.1	Earth cutting methods. Layer, terrace and face and side excavation	.8	Use of chemical anti-freeze agents and freezing-point depressants
.2	Cuttings without timbering		—62-715
.4	Cuttings with timbering	.144	Damage and accidents caused by snow and ice on land (precautions, prevention and control)
.135	Raising of ground level. Mounds. Filling and levelling of large areas		—551.322; 551.578.46; 614.8; 62-784 1
.136	Dykes. Dams. Causeways. Embankments. Cofferdams		
	—625.714; 627.5		

624.144.2	Damage caused by loading with hoar-frost, snow etc. Countermeasures —62-753; 62-757.3	624.154.54	Special designs of bored pile. Bored piles with permanent (non-recovered) casing. Vibrated concrete bored piles. Precast bored piles
.4	Control of snow drifting. Snow barriers, e.g. fences, hedges, galleries —625.164	.6	<i>Denote named systems by A/Z</i> Use of drilling or boring machines for pile foundations. Equipment for in-situ casting of piles
.5	Removal of snow and ice. Snow melting —625.174	.64	Insertion or placing of piles
.53	Methods of snow and ice removal (mechanical, thermal, chemical)	.68	Extraction or withdrawal of casing tubes
.55	Equipment for snow and ice removal. Snow ploughs. Snow blowers. Snow melters —629.1-479	.8	Structural details of bored piles. Foot, head, skin, shaft, shoe, point etc. of pile
.8	Measures to prevent or minimize slipping or skidding on ice and snow. Devices on automobile tyres. Sanding or gritting of roads etc. —625.089.1; 625.095; 629.11.012.72	.155	Prefabricated, driven piles (impact-driven piles)
.145	Damage caused by floating ice (precautions, prevention and control) —551.326; 626.144; 627.224; 627.73	.1	Driven piles in general
.146	Damage caused by anchor ice and frazil ice (precautions, prevention and control) —551.328	.11	Simple and composite driven piles. Prefabricated piles
.147	Ice and snow as foundation and structural or engineering materials. Artificial compaction of snow	.112	Timber piles (treated or untreated)
.148	Materials and adaptations for cold-climate work. Special materials. Special designs. Winter maintenance	.113	Concrete driven piles
.15	Foundation engineering. Substructure work	.114	Steel piles
151	Foundations. Foundation bed	.116	Various materials. Composite piles
1	Foundations in the dry	.117	Driven piles with reinforced structure (piles with spread footing, wings etc.)
.2	Foundations with control of water level	.118	Special designs of driven pile <i>Denote named systems by A/Z</i>
5	Shallow, e.g. slab foundations (with transmission of load near soil surface)	.12	Pile-driving plan. Depth of drive. Pile spacing and rake
.6	Buoyant foundations or rafts (floating foundations). Deep foundations (with transmission of load at greater depth)	.15	Use of equipment for driving, loosening and extraction of piles, including sheet piles. Pile-driving and extraction. Pile hammers. Vibrating pile-drivers. Pile extractors (pile-drawers)
.152	Excavating and embanking operations for foundations. Foundation trenches	.7	Structural details of driven piles. Foot, head, shaft, shoe, point, helmet etc. of pile
2	Excavation of foundation. Stripping of turf, vegetation. Clearing topsoil	.156	Grillages, footings, platforms and other special foundations in the dry
.5	Blasting	.2	Timber grillages
6	Sluicing. Enclosure and drainage of foundation trench. Dewatering, pumping out etc. Control of water level. Damming, coffering, sheet piling etc.	.3	Concrete grillages. Concrete platforms. Concrete footings. Foundation on concrete between sheet piling. Concrete bed
153	Foundation-laying in the excavation	.4	Reinforced concrete grillages
5	Foundations in the dry, without soil stabilization	.5	Masonry or brickwork grillages
51	Direct foundations	.6	Concrete legs, stilts, puncheons, ground props
52	Enlargement of foundations. Spread foundations. Wall footings. Grillage foundations etc.	.7	Cantilever foundations
524	Individual column foundations (pad foundations). Tower foundations. Foundations for high-rise buildings	.8	Well foundations —624.157.2
6	Foundations in the dry on continuous rafts and on inverted arches	157	Foundations in water. Underwater foundations. Deep foundations generally (with or without groundwater) —626.02; 627.02; 627.24/.25
7	Anchor blocks (dead men) Anchorage foundations —624.078.7; 624.137.6	.1	Cellular coffer dams (double-wall coffer dams)
154	Pile foundations. Piles in general <i>Denote functions and applications by colon, other characteristics by hyphen auxiliaries from 62-1/-9, e.g. 624.154-4</i> Shape, cross-section etc. of piles -8 Motive power or energy source of drilling, driving machines etc.	2	Well foundations in open water. Caisson foundations without compressed air. Open caissons
1	Pile foundations. Site and soil characteristics —624.131.4/.5	.3	Caisson foundations with compressed air. Pneumatic caissons
5	Bored piles. Cast-in-situ piles (cast-in-place piles)	32	Shafts
.51	Sand piles. Earth piles	33	Air-locks and air-lock operation. Air supply, compressed air etc.
53	Concrete bored piles (with recovery of casing or drilling tube). Compacting of concrete by vibration, compressed air etc.	34	Working chambers. Drainage and pumping of chambers
		35	Cutting curbs, edges, equipment of caissons
		36	Various other equipment, e.g. for soil removal
		.37	Recompression (decanting) air-locks
		.38	Types of caisson. Floating and sunk caissons
		.39	Multiple caissons and interconnections
		.4	Foundation-laying with diving bells
		5	Foundation-laying by artificial freezing —624.139 and references there
		.8	Pneumatic and hydraulic foundation-laying without caissons. Compressed-air foundations. Water-jet foundations
		.159.1	Direct foundations under water. Underwater foundations of poured concrete, tipped rubble, stone filling, concrete blocks
			Special foundations. Foundations for dynamic loads, resistant to earth tremors, subsidence etc.

624 159 2	Damage, deterioration, failure of foundations. Baring, erosion, scour, undermining, settling of foundations	624 21	Bridges in general Structure, parts etc —625.712.36; 625.745 1, 626 132/ 133, 725.95
.3	Protection against scour etc. Stone-filled fascines, mattresses etc. Chained blocks	Special auxiliary subdivisions	
4	Strengthening, reinforcement of foundations Underpinning of structures	624.21 03	<i>Applicable throughout 624 21/.8</i> Bridges according to certain characteristics: size, permanence, location, shape etc <i>Generally parallel to 69 03</i>
16	Abutments. Piers	.033	Dismantlable, transportable and temporary bridges (e.g. Bailey bridges) —624.87
.164	Abutments. Wing walls. End supports —624.137.5; 69.022.9	036	Bridges according to layout, basic form, shape
.166	Piers (structural supports). Pylons <i>For piers as separate structures — 627 332</i>	.1	Bridges straight in plan
32	River piers. Pier noses. Cutwaters. Breakwaters. Ice guards	.2	Bridges skew or angled in plan
.33	Land piers. End piers. Shore piers	.3	Bridges curved in plan
4	Anchor piers	.4	One-span, single-span bridges
.5	Recesses in piers	.5	Bridges with several independent superstructures
.6	Multi-level, multi-tier piers	.6	Bridges with continuous superstructures
.7	Multi-column piers (clustered piers)	.7	Bridges with load-bearing grillage
8	Pylons (structural supports). Hinged piers (rocker piers) <i>For pylons as separate structures — 624.971</i>	.8	Multi-storey bridges
.19	Tunnels. Tunnelling. Galleries. Gallery construction —622.25/.28 624.19.034.5 Underwater tunnels .035.2 Mountain tunnels .4 Underground, subterranean tunnels —625.712.35	.09	Parts of bridges
191	Tunnelling. Gallery excavation and construction	.095	Bridge carriageways
1	Technical and economic preparatory work Geological and topographic survey. Selection of tunnel direction, gradients. Sections. Statics. Designing. Scheduling. Costing	.2	Carriageway position in relation to girders or supporting structure
2	Execution of tunnel works. Tunnelling methods	.21	In lower position. Sunken carriageway (e.g. in trough bridges, truss bridges)
.21	Open-pit (cut-and-cover) tunnelling	.22	In middle position. Deck level between upper and lower booms or chords
.22	Gallery construction in general. Tunnel driving. Timbering	.23	In upper position. Deck level above supporting structure (deck bridges)
24	Pilot headings (pilot tunnels) Driving Enlarging to full section	.27	Cantilevered decking for motor or pedestrian traffic
.3	Breaking ground. Cutting. Blasting etc. 624.191.3 ≈ 622.23	.32	Carriageway decking, floor system, surfacing. Railway and tramway tracks on bridges
5	Shaft construction. Ventilation shafts, chimneys. Shaft timbering 624.191.5 ≈ 622.25	.33	Bridge pavement, drainage, heating
.6	Special methods of driving. Tunnelling machinery (shields, rotary excavators). Shield driving	.096	Bridge railings, handrails, parapets, balustrades
.7	Spoil removal, haulage, transport 624.191.7 ≈ 622.6	.097	Bridge accessories. Traffic control devices on bridges: signals, barriers, tollgates etc. Lighting equipment on bridges
.8	Facing, lining of tunnels. Tunnel centring, masonry, niches, chambers. Tunnel entrances, portals	Principal divisions	
.81	Facing, lining of tunnels. Tunnel supports, rings, tubbing	624 26	Flat or slab bridges
82	Structural elements of tunnels. Tunnel walls, partitions, niches. Tunnel floors, deckings. Shafts. Tunnel entrances, portals	.27	Girder bridges (beam bridges, solid web bridges). Slab-and-beam bridges
.86	Tunnel chambers, engine rooms, workshops	.28	Truss-framed bridges. Strut-frame bridges
.88	Abandoned, disused tunnels and galleries	3	Truss bridges (open-web, lattice girder bridges)
.94	Climate engineering in tunnels. Ventilation, air conditioning etc. Lighting 624.191.94 ≈ 622.4	.31	Bridges with parallel booms or chords. Lattice bridges
.95	Tunnel drainage, dewatering 624.191.95 ≈ 622.5	.32	Bridges with curved booms or chords. Bow-string girder bridges
.195	Traffic tunnels —625.111; 625.712.35; 626.132	.34	Bridges with pin-jointed members Hinged girder bridges
.196	Tunnels etc. for conveying fluids, e.g. water, oil —621.643.2; 621.644; 628.14/.15; 628.2	.35	Cantilever bridges
624.2/.8	BRIDGE-BUILDING	.5	Cable bridges. Suspension bridges 624.5.071.2/.3 Flexible and rigid elements for suspension parts. Suspension cables, ropes, chains. Suspension rods, bars etc.
		.52	Suspension bridges without stiffening or incompletely stiffened
		.53	Rigid suspension bridges. Tied cantilever bridges. Stayed girder bridges
		.6	Arch bridges
		.8	Movable bridges —621.874
		.82	Drawbridges. Bascule bridges
		.83	Swing bridges (pivot bridges, turn bridges)
		.84	Lift bridges
		.85	Traversing bridges (retractable roller bridges)
		.86	Transporter bridges. Ferry bridges. Wharf bridges. Loading and unloading bridges
		.87	Floating bridges. Boat bridges. Pontoon bridges. Raft bridges —624.21.033

624.9	SUPERSTRUCTURES (EXCEPT BRIDGES) SUPERSTRUCTURES COMPLETE IN THEMSELVES <i>Denote details at .91/.97 by .01/.07 listed under 624</i>	625.033.4	Stresses in the vehicle. Effects of traction, propulsive and other forces
		.04	Influences on tracks and roads. Properties of tracks and roads in relation to these influences
.91	Superstructures according to roof design <i>Denote roof details by .024 ($\approx$ 69.024), kind of building by :72...</i>	.041	Influence of construction method
		.042	Atmospheric and other physical influences (and track or road properties in relation to these)
.92	Superstructures according to system of construction (solid, rigid, flexible, shell construction etc.)	.06	Binders, binding materials and their use —625.75; 625.8
.94	Skeleton structures. Framed structures	.061	Binders in molten form. Hot binders
.952	Storage structures for gaseous materials. Gas holders	.062	Binders in solution. Road oils. Cutbacks
		.063	Binders in emulsion form
.953	Storage structures for liquids. Tanks. Water towers. Overground reservoirs etc. —627.81; 628.13	.065	Binders in pulverous, powder form
		.066	Coating. Impregnation, pretreatment of materials
954	Storage structures for bulk solids. Bunkers. Silos etc.	.067	Grouting method. Pouring of binder over aggregate
96	Supporting structures for materials handling, conveying, transporting. Support gantries Hoist towers etc. <i>Details by :621.8...</i>	.068	Mixing methods. Plant mix. On-site, in-situ mixing
		.07	Mineral aggregates
		.072	Coarse aggregates. Gravel. Shot. Grit etc.
97	Tall slender structures. Towers Chimneys Masts —625.745.7	.073	Fine aggregates. Sand. Granular materials
		.074	Fillers. Powders. Flours
971	Free-standing, self-supporting towers. Pylons (cable towers). Masts. Chimney stacks etc. —624.166.8; 625.745.9	.08	Road construction plant and machinery.
			Finishing. Maintenance. Repairs Minor improvements
972	Structures with additional support. Guyed, stayed, strutted masts etc.	.083	Filling of joints, voids
		.084	Rolling flat. Road rollers
974	Structures suspended from a central tower or core. Umbrella structures —69 022.32	.085	Other compacting equipment. Punnners.
			Power rammers. Frog rammers etc.
		.086	Planing of surface. Planers
		.087	Scarifying of surface. Scarifiers
		.088	Auxiliary machines and equipment for preparing surfacing materials
625	CIVIL ENGINEERING OF LAND TRANSPORT. RAILWAY ENGINEERING. HIGHWAY ENGINEERING	.089	Finishing Surfacing. Repairs Minor improvements
Special auxiliary subdivisions		.1	Surfacing. Surface dressing. Sealing.
625-1/-3	Characteristics of transport engineering works		Spreading of chippings. Gritting (as part of road construction) —624.144.8
+ -5/-9	<i>Details from 62-1/-3 and -5/-9 (-4 is not applicable here)</i>	2	Repairs to road surface
625 02	Theory of road pavement design —625 75; 625 8	4	Minor improvements. Raising or lowering of level. Widening. Narrowing Realignment etc
021	Flexible pavements, e.g. macadam, tarmacadam, gravel	094	Roads and parts of roads in special colours
022	Rigid pavements, e.g. concrete	095	Skidding. Anti-skid properties —624.144.8; 625.089.1
.023	Stabilized soil pavements, e.g. mixed-in-place, lean concrete	096	Roadworks in relation to traffic disruption
03	Interaction between vehicle and track or road Research, experiments etc —629.4.015	097	Confining works to one side of road at a time etc.
031	Geometry of contact between vehicle and track Rail and tyre sections etc	098	Dust formation —628 511 and references there
032	Chemical and physical, especially mechanical effects between vehicle and track		Traffic noise (from interaction with surface)
3	Effects of contact between track and wheel considered in isolation —531 4		Surface noise —351.759 4; 628.517.2, 656 053 7
4	Mechanical effects between track and vehicle in a straight path Effects of uneven track, of wheels out of round, of unbalanced masses Hunting, lurching etc Vehicle vibration	Principal divisions	
5	Mechanical effects between track and vehicle in a curved path	625 1/ 5	RAILWAYS. TRAMWAYS CABLEWAYS
6	Mechanical effects special to particular places Effects of crossing bridges, level crossings etc	625 1	RAILWAYS IN GENERAL PERMANENT WAY. TRACK CONSTRUCTION —621.33; 624 19, 624 2/ 8; 627 35, 629 4, 656 2; 711 75; 725.3
7	Risk of overturning, derailment or skidding of vehicle	11	Theoretical investigations Route planning and specification —528 4
8	Effects of, and reactions to, vehicle movement Resistance to motion Tractive resistance Aerodynamic, gradient, curve and braking resistances. Equations of motion etc	111	General studies of line layout. Projects and plans for lines etc.
033	Stresses in the vehicle and the track	112	Track gauge. Junction of lines of differing gauge —629.488.4
3	Track resistance. Track deformation, displacement, creep	113	Studies of longitudinal section. Gradients
38	Bearing capacity of substructure Track stability	114	Curves. Transition curves in the horizontal and vertical planes
			Studies of track cross-section. Calculation of earthworks. Clearance, train gauge

625.115	Theoretical studies of superelevation and gauge widening —625.176	625 151.3	Control of points Switch actuation: manual, automatic etc. —656.25
12	Substructure. Foundations and subgrade (formation)	5	Various locking and interlocking devices.
122	Construction and consolidation of earthworks. Cuttings. Embankments. Fills. Slips (landslides). Wash-outs. Protection	6	Securing of points and their transmissions Points controlled from the vehicle —621 337.6; 656.259 1
123	Drainage installations. Flood precautions. Lowering of groundwater, water table. Ditching. Frost precautions etc	8	Switch crossings. Other parts of branchings Crossing vees, frogs Wing rails. Guide rails Temporary, flying track connections
14	Superstructure, track. Permanent way in general	.9	Laying and maintenance of switches. Freeing of points in winter. Unfreezing of points
141	Ballast. Ballasting materials. Depth and profile	.152	Line, rail, track crossings 625.152 $\approx$ 625.151
142	Rail supports. Transverse and longitudinal sleepers. Ties	153	Slip switches 625.153 $\approx$ 625 151
2	Timber sleepers. Wooden sleepers	154	Turntables. Turn bridges
3	Metal, e.g. steel sleepers	155	Transfer tables. Traversers —621 875.4
4	Stone sleepers Concrete sleepers	.156	Buffer stops and similar devices Wheel stops, blocks Sand drag Retarders Rail brakes —656.259.1
.143	Rails. Rail fastenings		
1	Shapes, profiles, types, sections and weight of rails. Length of rails. Rail classification	.157	Various accessories Distance indicators etc
2	Quality of rail metal. Manufacture, testing, heat treatment. Quality standardization —006; 620.1	.16	Secondary installations. Access roads. Level crossings
.3	Rail fractures and fissures —620.19	.161	Houses, lodges, huts (e.g. crossing-keepers' houses, plate-layers' huts)
4	Rail joints and fishplates. Fishbolts. Jointless rail. Continuous welded rail	162	Level crossings Enclosure Demarcation —656 216.2
5	Fastening of rails to sleepers. Rail creep	.1	Level-crossing barriers, gates Design
51	Elastic fastenings for rails. Tension fastenings	.4	Installation
52	Base-plates or sole-plates on transverse sleepers. Fastening of rails to base plates		Road traffic signs at level crossings Warning and safety devices. Signals, acoustic alarms (audible warning systems) etc —656 055; 656 25
53	Rail chairs or seatings on transverse sleepers. Fastening of rails into chairs	5	Devices for checking correct operation of level crossings
54	Fastening of rails, base-plates and chairs to transverse sleepers, with clips, spikes, screws, track bolts etc.	6	Roadway, carriageway at level crossings
56	Fastening of rails to longitudinal sleepers and to isolated supports. Transverse connections for these structures, to maintain track gauge	7	Intersections with tramway lines etc.
57	Rail braces. Spacing ties	.163	Visibility of level crossings. Accident prevention at level crossings Elimination of level crossings
58	Fastenings and connections for sleeper rails and for compound, multi-piece rails	.164	Cultivation and planting of railway land
.144	Rail creep. Anti-creep measures and devices		Snow-shields and other protective structures
.1	Track laying	165	Protection against rock-falls Protective galleries etc. —62-757; 624.12; 624.144 4
2	Track design and equipment Spacing of sleepers. Length and location of joints. Rail length	17	Access roads. Station approaches Yards, courtyards Gardens etc.
.3	Gauge-clearance. Cant or superelevation.	171	Track maintenance, repair, replacements
.4	Track laying in curves. Measuring devices for curves	.172	Supervision and inspection of the track
5	Construction of junction tracks	.173	Inspection vehicles
6	Track-laying operations. Pegging-out, staking-out. Ballasting. Rail bending. Packing and tamping of sleepers etc.	.174	Running maintenance. Condition of line
.7	Machines for track laying and installation. Machines for transport and installation of prefabricated track sections (rail and sleeper assemblies). Rail-lifting, ballasting, tamping machines	.175	Maintenance of gauge
145	Machines and equipment for operations on individual track components. Drills, tongs, nips, saws etc. Appliances for bending, straightening, hoisting, planing, shaping. Spiking, screwing and bolting tools	625.3	Repairs and replacements Correction, alignment of rails, of track, of curves Correction of cant, superelevation Renewal of materials, ballast etc. —625.144 5/.7
146	Hand tools for work on track, e.g. for packing of sleepers	.31	Clearing the track of snowfall —624.144 5; 625.151 9; 629.464.22
.15	Appliances for dismantling track, removing and transporting rails	.32	Alteration of gauge —625.112; 625.115
.151	Workshops and depots for track components	.33	RAILWAYS OF SPECIAL CONSTRUCTION —625 5; 629.43; 656.33
.2	Track junctions and accessories	.34	Narrow-gauge railways
	Branchings. Turnouts. Junctions. Points and switch crossings	.35	Adhesion railways for steep gradients
	Layout and structure of junctions. Number of turnouts. Trailing of switches. Design of tongue rail or blade etc.	.36	Rack railways —629.4.033; 629.421.6
			Non-suspended monorail systems, with gyroscope stabilizer —625.54
			Broad-gauge railways
			Flat truck (open truck) systems —629.463.62

625.39	Other railways of special construction. Atmospheric railways. Compressed-air railways. Railways with skids, sledge runners. Railways with endless screw (helical drive)	625.711.812	Roads on high ground (along or near watersheds or divides). Hill roads. Mountain roads
		.813	—625.712.36
625.4	ELEVATED RAILWAYS. UNDERGROUND RAILWAYS. SUBURBAN RAILWAYS. TOWN RAILWAYS. TRAMWAYS	.814	Roads in valleys. Roads through flat country
	—629.43; 656.34		Steep roads, gradients, ascents (transition from valley to high ground, or connecting two valley roads). Serpentine roads (with sharp curves, hairpin bends). Roads through mountain passes
.41	Overhead railways on viaducts. Elevated railways	.816	Bypasses. Ring roads. Orbital routes
.42	Underground railways	.82	Desert roads. Roads over sand dunes
.45	Suburban railways. Town railways	.83	Swamp, marsh roads. Meadow roads
.46	Tramways	.84	Forest roads and trails
		.712	Urban roads
625.5	CABLE RAILWAYS. FUNICULAR RAILWAYS. SUSPENSION RAILWAYS. AERIAL ROPEWAYS AND CABLEWAYS. TELPHERS	.1	Major roads in towns. Main roads. Urban arterial roads. Principal streets (avenues, boulevards etc.)
	—621.87; 656.35	12	Communication routes between localities.
.52	Cable-traction railways (with traction by cable, rope or chain). Gravity planes (self-acting inclines, jinny-roads). Funicular railways	14	Urban cross routes, through-roads
	—621.087.3; 622.016.4; 629.4.034	.15	Major traffic roads, distributor roads
.527	Cables. Ropes. Chains	.16	Ceremonial, triumphal routes. Roads for processions, parades
	—672.6; 677.7	.18	Streets for markets and fairs
.528	Installation of cables. Coupling dogs, claws	.2	Shopping streets
.54	Overhead suspension railways (with rigid tracks). Telpher lines. Suspension monorails etc.	25	Minor roads in towns. Secondary roads. Side streets. Back streets. Urban lanes, alleys
	—625.34; 629.435		Service roads (to industrial and commercial premises). Private access roads, drives (to courtyards, garages etc.)
.57	Aerial ropeways and cableways. Cable telpers	27	—625.712.7; 625.746.3
571	Preliminary work. Planning. Routes etc.	.28	Dead ends. Cul-de-sacs. No-through-roads
573	Cableway masts, supports. Anchorages. Counterpoises (balance weights) Tensioning devices	.31	Residential streets
		32	Gateways. Archways
576	Aerial ropeways and cableways with load moving in a horizontal or inclined plane	.33	—725.94; 725.96
3	Monocable system (single suspension and traction cable)	.34	Galleries, colonnades
4	Bicable system (separate suspension and traction cables)	.35	—72 011.75
577	Aerial ropeways and cableways with vertical movement of load within a span. Blondins	.36	Covered ways, arcades
	—621 877		—725.26
578	Cars and clamping devices	.37	Pedestrian underpasses and overpasses.
2	Cars. Gondolas. Seat frames (on ski-lifts etc.)	4	Subways. Walkways
4	Freight carriers, containers, skips		Underground roads. Traffic underpasses.
7	Engaging of cable. Shoes, clamps etc		Roads in tunnels
		.43	—624.195; 725.95
625 7/.8	HIGHWAY ENGINEERING	.44	Elevated roads. Traffic overpasses
	—351.712, 351.811; 711 73	45	—725.95
Special auxiliary subdivision		46	Tiered, multi-level roads
[625 7/ 8] 05	Site organization and plant. Construction methods	47	Open areas. Squares. Esplanades. City walls, ramparts
	[625.7/ 8] 05 = 69 05		—711.61; 712.25
Principal divisions		48	Open areas surrounding buildings
625 7	HIGHWAYS IN GENERAL. ROADS. CARRIAGEWAYS. STREETS. RURAL AND URBAN ROAD SYSTEMS	5	Open areas with road traffic. Squares as traffic routes. Traffic roundabouts
71	Kinds of ordinary road according to importance and purpose	6	Ceremonial squares. Open areas for festivities, parades etc.
711	Roads in open country	61	Open areas for markets and fairs. Market squares etc.
1	National roads, routes. Major roads. Trunk roads. Arterial roads	62	Open areas for games, recreation.
2	By-roads. Minor roads. Access roads for farms, mine workings etc. Country lanes, tracks etc	63	Playgrounds
	—625 814	.68	Residential squares etc.
3	Highways made especially for motor vehicles	7	Public promenades, gardens, parks
4	Cycle tracks		—712.2
5	Tracks for pedestrians and pack animals (together). Mule tracks (pack roads)	8	Sites reserved for special purposes
	—625 814	714	Storage depots
6	Footpaths. Pedestrian paths, walks		—622.69; 623.485; 725 35
7	Tracks for horse riding. Rides. Bridle paths	.7	Stopping places for animal-drawn vehicles
			Parking areas for motor vehicles. Car parks etc.
			Military parade grounds
			Inclines. Ramps
			—625.712.25; 625 746 3
			Flights of steps in streets. Passenger lifts (elevators) in streets
			—621.876; 625.5
			Embankments (roads along watersides).
			Causeways. Towpaths
			—626.32; 627.18; 627.35
			Filling, covering or narrowing of watercourses in the interests of road traffic

625.717	Airfields. Runways. Landing strips —711.77	625 745.4 (cont'd)	625.745.4 $\approx$ 628.2
72	Planning and routing of roads —711.73	5	Protective boundaries and barriers. Safety markings. Edge markers (edge stones, spur posts). Guardstones, fenders. Reflectors etc —625.88
	625.72:528.486 Transfer of road plan to terrain. Staking-out and tracing	.6	Milestones. Signposts. Direction signs. Boundary, border, frontier signs. Place-name signs. Street-name signs. House-number plates. Warning, danger signs (e.g. for electric cables) etc. —625.746.5
721	Layout on map. Use of contour lines. Design of road network (radial, concentric, triangular, rectangular etc.)	7	Various other masts, poles, columns —624.97
723	Longitudinal profiles (lengthwise sections) —625.732	8	Street lighting supports. Lampposts. Lamp-standards. Branched lighting columns —628.971; 725.94
724	Changes of direction. Transition curves	.9	Supports and suspensions for cables etc (e.g. telegraph poles) —624.971
725	Levelling. Gradients. Ascents. Descents. Embankments. Cuttings —528.422	746	Other ancillary works connected with use of the road by traffic
726	Mass-haul diagrams. Quantities of spoil and fill	.1	Junction and levelling of road pavement with permanent way of tramways, railways etc
.73	Parts of roads. Design. Dimensions	.2	Street exits and entrances of underground railways etc.
.731	Subgrade. Foundation. Earthworks. Cuttings. Transport of fill. Formation	.3	Lowering of footway to permit vehicular access —625.712.25; 625 712.7
.1	Subgrade	.5	Ancillary works for traffic regulation. Traffic bollards. Signalling devices, road signs etc.
.2	Earthworks. Cuttings. Ground improvement (soil compaction, consolidation, stabilization) —624.138	.748	Road and lane markings (white lines). Road studs etc. —625.745.6; 654.05; 656.05
.3	Drainage of subgrade, subsoil and foundation	.2	Street furniture. Ancillary works not directly connected with road traffic —725.94
.4	Filling. Fill	.3	Small permanent structures. Shelters. Kiosks. Public lavatories, urinals etc. —628.425 and references there; 725 21
.6	Formation. Preparation of road bed. Trenching for bed. Removal of earth	28	Underground garages and filling stations —625.748.54; 725.38
.7	Rigid foundation or base. Concrete and ferro-concrete foundations	.3	Small temporary structures. Hoardings. Road-menders', workmen's huts
.8	Flexible foundation or base	4	Other street furniture. Seats, benches. Litter bins. Post boxes, pillar boxes etc. —628.462; 656.843; 725 947
.81	Rolled stone foundations	.51	Public clocks
.82	Stone pavement foundations. Sand, ash, gravel. Rough cast. Wearing course. Non-bituminous binders	.52	Public fountains
.85	Foundations with bituminous binders (black base foundations)	.54	Filling stations. Petrol pumps —625.748.28; 725.38
86	Use of existing roads as foundation for new surface 625.731.86 $\approx$ 625.8	.56	Fire alarms
.87	Use of fibrous materials, bitumen paper or other insulating layers	.57	Taxi-cab call boxes
9	Intermediate layer. Binding layer	.6	Advertising devices. Advertisement pillars etc.
732	Transverse profiles (cross-sections). Camber. Superelevation. Stepping (multi-level roads) etc. —625.723	.75	Road surface treatment —625.06; 625.8
.733	Flanks, shoulders or haunches. Verges —625.88	752	Treatment with bitumen, asphalt
734	Footways (also called pavements). Sidewalks. Median strips (central reserves). Refuges (islands) —625.711.6; 625.88	753	Treatment with oil
735	Ditches. Drainage channels —624.134	754	Treatment with tar
736	Embankments. Slopes, rakes or batters —624.137.2	.755	Treatment with bitumen-tar mixtures
737	Retaining walls —624.137.5	.756	Treatment with bitumen-rubber mixtures
738	Parapets. Barriers. Guard rails	76	Maintenance and repair of highways. Road mending. Street cleansing
.739	Road junctions. Forks, bifurcations. Intersections. Crossroads. Slip-roads. Points of merging	761	Maintenance of stone-paved roads, block or sett paving
74	Methods of road construction. Ancillary works	.762	Maintenance of macadamized or metalled roads
745	Ancillary works as parts of roads	.763	Maintenance of wood block roads
.1	Bridges —624.2/.8	.764	Maintenance of monolithic cement or concrete roads
.11	Footbridges. Pedestrian bridges	.765	Maintenance of bituminous, asphalt roads
.12	Bridges for pedestrian and vehicular traffic. Road and tramway bridges. Viaducts —624.21.095.32	.766	Maintenance of footways, sidewalks
.2	Water conduits, open or closed. Channels. Culverts —624.196	.767	Maintenance of cycle tracks
.3	Road gutters. Drainage grips —628.2	.768	Continuous minor maintenance. Street cleansing. Road sweeping —351.777.614; 628.462
.4	Drains. Gratings. Inspection holes (manholes). Traps. Shafts. Vents	.7	Watering of roads. Sprinkler vehicles
		.8	Maintenance of street lighting
		.77	Planting of highways and open areas. Roadside planting

625 771	Conditions and planting methods. Single, double, multiple rows. Spacing of trees	626-1/-2 (cont'd)	<i>Details from 62-1/-2 and -4/-9 (-3 is not applicable here)</i>
.772	Irregular planting (not in rows)	626-3	Cross-sectional parts of hydraulic constructions
.774	Maintenance and protection of planted areas from traffic, road works etc. Drainage. Irrigation. Tree guards. Pruning etc.	-31	Upstream approaches and parts
.78	Underground services. Pipelines. Cables. Conduits. Distribution networks	-33	Downstream approaches and parts
.782	Cross-sections of underground installations. Complexes of several supply and disposal channels	Principal divisions	<i>Despite the notational appearance, 626.01/.02 are not special auxiliaries; the digits after the point are not transferable</i>
.783	Services following direction of road	626.01	Scientific principles of hydraulic engineering
.784	Services not following direction of road	.02	Underwater work in general. Diver's work
.79	Other matters relating to highways. Projecting structures. Overhangs. Eaves	.022	—624.157; 627.02; 627.24/.25
625 8	HARD SURFACING OF HIGHWAYS. PAVEMENT, CARPET OR WEARING COURSE. PREPARATION AND USE OF MATERIALS	.025	Equipment for underwater work. Diving bells. Divers' shafts. Diving ships (diver-support vessels)
	—625.02; 625.75		Diving suits. Breathing equipment. Ancillary equipment
81	Primitive roads. Earth roads etc.	626 1	INLAND NAVIGABLE WATERWAYS. CANALS. CANALIZED RIVERS
814	Roads of earth, gravel, sand, clay, trass etc.	11	—626.9; 627.4
	—625.711.2; 625.711.5	.112	Generalities. Types of canal
815	Roads with slab pavements. Flagstones etc.	.113	Canals without locks. Canals in level terrain
.82	Stone pavements		Canals with locks. Summit canals. Junction canals
821	Kinds of stone used. Block, sett, brick paving etc.	.114	Lateral canals. Canals parallel with rivers
823	Laying of stone paving	.12	Planning and routing of canals. Longitudinal profiles (lengthwise sections). Bends, curves
.83	Wood block pavements. Cork pavements		Widening at bends. Crossings, intersections of canals
.831	Kinds of wood used	13	Canal construction
833	Laying of wood paving	.131	Excavation of canal bed. Embankments and cuttings for canals. Excavators for long trenches. Dredging
84	Concrete pavements		—621.879; 624.134; 631 312 63
.85	Asphalt pavements Bituminous pavements	132	Underground canals (tunnel canals).
.851	Pavements of mastic or melted asphalt		Aqueducts
852	Pavements of compressed asphalt		—624.19.035.4; 624.196, 624 2/.8;
853	Pavements of asphalt slabs or tiles	133	628.143
855	Pavements of asphalt with mineral aggregates (gravel, sand etc.)		Access, approaches, to canals Crossings of roads and waterways. Emptying, draining of canals
856	Bitumen-macadam pavements		—621 649; 621.65/ 69; 625 714; 626 32
857	Pavements of asphalt-tar mixtures	134	Lining, sealing of canals Making watertight
858	Pavements of stones and tar. Tarmacadam pavements		Local seepage. General, invisible seepage
859	Pavements of tar with other minerals	14	Lining materials
3	Pavements of coarse mixtures, with broken stones, rubble, chippings etc	.142	Maintenance of canals
4	Pavements of fine mixtures, with granular material, sand etc.	143	Maintenance dredging
86	Pavements of broken stones, gravel, grit, earth	144	Cleaning out. Clearing of weeds
861	Materials used. Kinds of stone, debris etc	15	Removal of ice
862	Preparation and storage of materials	17	—624 145
	Stone-breaking (by hand, with hammer; mechanically)		Planting of canal slopes and embankments
	—621 926; 622 73		Reinforcement of canal slopes and embankments
863	Laying of broken stone pavements etc	18	—624.137
	Named methods (e.g. Macadam)		Filling-in of canals
87	Various other kinds of pavement		—624.135
871	Metal paving (e.g. iron, steel)	2	Water supply (feedwater) for summit canals
872	Pavements of vitrified brick		—626 81/ 84
873	Mosaic paving	21	Quantity of water necessary Water consumption. Water losses
874	Pavements of reinforced slabs	22	Supply from natural watercourses and lakes
877	Pavements of fibrous materials	23	Supply from artificial water storage Canal reservoirs
878	Rubber pavements	24	Drawing, raising water by mechanical means
5	Pavements of vulcanized rubber blocks		Water- raising mechanisms
7	Pavements of rubber and asphalt		—621 649, 621 65/ 69
88	Construction of footways, sidewalks Kerbs Kerbstones (curbstones) Verges	25	Feeder channels, ditches Feeder sluices, weirs
	—625 733/ 734, 625 745 5	26	Discharge, drainage installations
	625 881/ 887 = 625 81/ 87	28	Particular structures on or in canals. Lock approaches and basins. Passing and turning places Lead-in jetties. Safety gates. Others
626/627	HYDRAULIC ENGINEERING AND CONSTRUCTION. WATER, AQUATIC STRUCTURES		<i>Details by colon</i>
	—351.79, 551 46; 556; 711 76	3	Shape and transverse dimensions of canals. Cross-sections
626	HYDRAULIC ENGINEERING IN GENERAL		
Special auxiliary subdivisions			
626-1/-2	Characteristics of hydraulic engineering works		

626 31	Water-bearing section. Wetted perimeter. Wetted cross-section. Canal width and depth. Mean water depth. Headroom under bridges. Angle of side slope	626.75	Towing by tugs, tugboats —627.718; 629.124
32	Towpaths —625.714	.76	Chain or cable traction. Haulage by submerged chain. Chain-ferry systems (cable and drum, toothed wheel etc.)
.33	Spoil-banks	.78	Navigation with self-propelled vessels
.34	Counter drains	626 8	AGRICULTURAL HYDRAULICS. IRRIGATION, DRAINAGE AND RECLAMATION ENGINEERING
.35	Canal banks		—556; 627.1; 627.5; 627 8; 628.1, 631 6
.4	Locks. Layout, location, dimensions		626 8:631.4 Agricultural hydraulics in relation to soil science and research
.41/.46	Chamber locks	80	Significance of water for land cultivation —551 579; 556, esp 556 18
.41	Chamber locks in general. Various designs	81/.84	Irrigation —351.792; 631.67
.413	Single locks	81	Water sources for irrigation —628.11
.414	Double or twin locks. Foursquare locks (for two or more vessels abreast)	811	Supply from groundwater. Well water Artesian water —621.649; 621.65/.69
.415	Locks for trains of barges	812	Supply from natural watercourses Spring water. River water
.416	Locks for negotiating large differences of level. Staircase locks (flights of locks) Shaft locks (high-lift locks)	.813	Supply from effluent or drainage channels
.419	Other kinds of lock. Switch locks. Dead-end locks. Turn-around locks. Safety locks or guard gates	.814	Supply from lakes, reservoirs, navigation canals
.42	Structural parts of chamber locks. Timber locks. Masonry locks	.816	Water extraction using wells, dams, drainage structures
.421	Fixed parts. Chamber walls, sills, groundsills	.82	Irrigation canals, channels etc —621.643
.422	Head bays	.821	Routeing of channels. Dimensions of cross-sections. Types of channel
.2	Moving parts	.822	Construction of channels
.21	Lock gates	.823	Ancillary works
.22	Mitre gates	2	Inverted siphons. Culverts
.23	Flap gates	3	Superpassages
.24	Radial or segmental gates	4	Devices for excluding and ejecting silt from irrigation channels Silt excluders Silt ejectors. Sedimentation tanks Filtering devices
.25	Vertical-lift gates	.5	Sluices (floodgates) Inlet, outlet and distributing sluices
.3	Roller gates	.6	Measuring weirs, flumes, glacis
.4	Ship caissons (sliding caissons)	.7	Details of conduits and pipes (couplings, valves etc.) —621.643.4; 621.646
.423	Accessories of lock gates. Bearings. Anchorages. Operating gear. Sluices and valves for filling and emptying of locks	.8	Crossings of irrigation channels. Aqueducts
.43	Buildings for lock machinery. Engine houses	.91	Siphons Level crossings. Tunnels Inlets —628.145; 628.26
.44	Construction of chamber locks	.92	Channel lining
.45	Equipment. Towing installations. Safety ladders. Mooring rings. Bollards. Fenders	.93	Overflow and relief devices
.45	Arrester chains etc.	.824	Safety appliances (for rescuing from drowning). Life-saving equipment
.46	Operation and maintenance of locks. Lock operation time. Water consumption. Water losses, leakage, seepage	.826	Measurement, distribution, rating of water.
.49	Arrangements for saving water in locks	.83	Rotation (alternating use of water sources).
.5	Floats. Water-saving chambers. Lock reservoirs	.84	Recuperation, re-use of water —628.142
.51	Locks without chambers	.841	Water losses in irrigation channels
.52/ 54	Lifting gear and inclined planes for vessels	.842	Waterworks for irrigation. Pumping stations
.52	Vertical lifting gear for vessels. Barge lifts	.843	Methods of irrigation
.53/ 54	Boat hoists. Hydraulic, float operated, counterweight lifts etc. —621.876	.844	Irrigation by flooding. Irrigation of fields with sewage, effluent, waste water. Sewage farms.
.53	Inclined planes, ramps, slopes for vessels	.845	Check system —628.36; 631.863; 631.879.2
.54	Inclined planes with haulage cradles	.846	Irrigation by overflow or spillover. Furrow and groove irrigation. Bed or strip irrigation
.7	Wet haulage with hoisting troughs (moving locks)		Surface irrigation. Water spreading. Wild or free flooding. Contour flooding. Catchwork irrigation. Irrigation by channels along raised ridges
.71	Haulage with troughs longitudinal to the slope		Sub-irrigation (subsurface irrigation)
.72	Haulage with troughs transverse to the slope		Spraying or sprinkling with water.
.731	Traction and propulsion on rivers and canals —629.1.03; 629.12		Evaporation losses —556.13; 621.647; 631.347
.732	Conditions affecting vessel movement. Tractive or propulsive effort. Water resistance. Realized speed or headway		Various methods of conserving moisture in irrigated land. Mulch etc. —631.544.7
.74	Propulsion by human power. By oars. By sculls. By boat-hooks, quants, punt poles. By hand-driven paddle-wheels —629.1.031.2		
.75/ 76	Hauling. Towing by human or animal power (manhauling etc.)		
	Mechanical hauling with endless chain or cable		
	Propulsion by sail and by water current. Sailing. Drifting, floating (e.g. of rafts, log trains). Downstream navigation —627.142; 629.122.3		
	Powered towing or traction		

626.86	Removal of water. Drainage —627.532; 631.62	627.084	Non-tidal waterways, ports and harbours. Wet docks etc.
.860	Generalities. Preliminary work. Existing drainage conditions	.09	Special-purpose waterways, ports, harbours and in-port facilities
.861	Drainage by open channels	.092	Passenger ports and in-port facilities
.862	Drainage by covered channels. Subsurface drainage. Field drains. Mole drains.	.093	Freight or cargo ports and facilities
	Soakaways etc. Excavation and components	.094	Fishing ports and facilities
.863	Drainage pumping stations. Drainage by pumped wells. Relief wells	.096	Naval ports and facilities —623.81
.87	Reclamation of wastelands, barren land —627.533; 631.61	.098	Shelter, safety and rescue ports or bases and their facilities. Harbours of refuge
.871	Bogs in general. Waterlogged land. Origin and composition of bog soil —551.312; 551.438.22	Principal divisions	
.872	Reclamation of lowland bogs, low moorland	627.1	NATURAL INLAND WATERS —351.79; 556
.873	Reclamation of raised bogs, high moorland	.11	Origins of natural watercourses —556.12; 556.51
.874	Mineral wastelands in general	.12	Springs, headwaters, sources —556.36
.875	Sandy heaths	.13	Hydrodynamics of waterways <i>Details by :532.5... and :556.5...</i> —556.536
.876	Mountainous wastelands	.131	Laws of water flow in rivers. Average speed of flow. Resistance of water in motion.
.877	Cultivation of waste heaps, tips, dumps	.132	Uniform and variable flow Damming of watercourses. Jumps, sluices, overfalls. Laws of falling water. Movement of solid bodies in water
.88	Hydraulic works for fish-breeding —639.2/.3	.133	Metering, gauging of watercourses (quantity and velocity measurements) —681.121
.881	Conditions required. Purity of water	.14	Torrents. Turbulent, fast-flowing rivers.
.882	Fishways. Fish passes. Fish channels. Fish ladders	.141	Rapids. Narrows. Freshets, floods etc.
.883	Natural and artificial spawning places	.142	Torrents. Torrential regimes. Origins, causes, countermeasures, controlling of torrents
.884	Incubation apparatus. Hatcheries	.15	Turbulent, fast-flowing rivers. Mountain streams Log floating, rafting —626.74
.885	Fish nurseries, rearing ponds	.152	Generalities on rivers and streams —551.435.1; 556:52/.53; 627.222 4; 627 4
.886	Fish ponds (for particular species) —628.357.3; 639.31	1	Rivers and streams
.887	Fish reserves	11	Large rivers. Major rivers
.888	Water requirement and supply to fish ponds	.12	Profiles. Longitudinal sections. Cross-sections. Slope, depth, breadth of rivers River bends. Configuration of river bed. Sinuosity. Meanders, loops, island formation etc. —551.435.13
626 9	MARITIME CANALS. SHIP CANALS —626.1	15	Volume of water in channel Flow rate Water levels (mean, high water, low water). Flooding, running dry etc.
91	Generalities. Planning and routing of ship canals. Dimensions. Cross-sections.	.2	Tributaries. Feeders. Affluents 627.152 2 ≈ 627.152.1
92	Single-lane and double-lane canals	3	Mountain streams. Torrential streams 627 152.3 ≈ 627.152.1
93	Unimpounded canals (sea-level canals without locks)	.157	Sedimentation. Silting. Detritus, gravel, sand, silt —627.223.7
95	Impounded canals at sea-level (maritime canals with entrance or exit locks)	.16	River mouths. Estuaries —551.468 6; 556 54
	Maritime canals with several levels or reaches. Maritime summit canals	.17	Stagnant waters Lakes etc —556.55
627	NATURAL WATERWAY, PORT, HARBOUR AND SHORE ENGINEERING.	18	Banks. Shores. Slopes —627.222 and references there
	NAVIGATIONAL, DREDGING, SALVAGE AND RESCUE FACILITIES. DAMS AND HYDRAULIC POWER PLANT	627 2	PORTS, HARBOURS AND ROADSTEADS: ENGINEERING AND CONSTRUCTION WORKS IN GENERAL
	627(26) Marine, sea, ocean works and facilities	21	Ports and harbours (as complete units)
	(28) Inland water, river and lake works and facilities	211	Offshore ports and harbours (e.g. offshore pipeline terminals) —622.242 4; 622.276 04
Special auxiliary subdivisions		.212	Coastal ports and harbours (on open coast)
627-1/-9	Characteristics of natural waterway and harbour works, hydraulic power plant etc <i>Details from 62-1/-9 (-1 is not applicable in 627 8)</i>	.213	Ports and harbours at river mouths, estuaries
627 02	Underwater work Diver's work 627 02 ≈ 626 02	.214	Ports on beaches. Beaching strands
03	Location Form of structure Degree of protection	.215	Ports and harbours on rivers, canals and creeks
032	Fixed construction (on firm foundation)	216	Ports and harbours on lakes and reservoirs
033	Temporary, transportable, dismantlable construction Inflatable structures		
034	Floating structures. Submerged structures		
037	Unprotected, open location		
038	Protected, safe location		
05	Site, organization and plant Construction methods 627 05 ≈ 69 05		
06	Special features (lighting, construction etc.) —627 8 06		
08	Waterways, ports and harbours in relation to tide and water level		
082	Tidal waterways, ports and harbours Tidal docks etc		

627 22	General conditions for port construction and installation. Hydrographic, hydrologic, geologic conditions. Choice of location etc.	627.335	Berthing quays or wharfs
221	Kinds of water and relevant properties. Saline, fresh, brackish water etc.	.336	Berthing structures for particular vessels. Ferry berths etc.
222	State of sea, river or lake bed. Condition of shores and banks	.338	Mooring facilities at roadsteads. Mooring buoys etc.
	—551.435.3; 556.537; 556.557; 625.714, 627.18; 627.4	.34	Mooring and landing equipment at wharfs, quays and piers
1	Sea bed. Submarine hydrography	.341	Mooring and fending equipment
	—551.462	.2	Mooring rings
.2	Littoral or beach away from rivers	.4	Mooring posts, bollards etc.
.3	Littoral or beach at river mouths, estuaries	.5	Trunk-buoys
.4	Banks of rivers and streams	.6	Fending equipment. Shock absorbers
.5	Shores of lakes and reservoirs		Fenders. Fender walls, piles, frames. Rubbing strakes
223	Sea currents and tides	.342	Adjustable landing bridges (embarking and disembarking devices) etc. Ladders, gangplanks, gangways etc.
	—532.596; 551.466		Fixed landing platforms or bridges
2	Tidal currents. Meeting of currents. Tidal bores	.343	Movable or adjustable landing ramps
.3	River currents	.344	Raisable platforms etc.
	—556.536	35	Dock roads and railways. Cargo handling equipment. Other ancillary equipment of ports
4	Tides. Tidal action. Ebb and flow High and low tides. Tidal range and period. Port installations to cope with tides		Details by :621.86/.87..., :625... etc.
.5	Measurement and observation of tides. Tide gauges. Mean sea level. Tidal curves	.355	—625.1; 625.714
.6	Waves. Volume and force. Breakers. Surf. Swash. Backwash. Counter-currents. Tidal waves (long waves)	.356	Port installations for supplying ships with water, fuel, other liquids. Fuelling, refuelling facilities
.7	Action of currents at river mouths, estuaries. Effect of tidal currents. Formation of banks, bars. Sand deposition	.357	Port installations for cleaning, cleansing, pumping (harbour cleaning, bilge pumping, ship cleaning etc.)
	—551.435.32; 627.157; 627.523; 627.74		Firefighting equipment and facilities in ports (including vehicle access and parking space)
224	Ice regime in ports	.36	—614.846.9; 629.1-477; 629.124.77
	—627.73	.37	Shipbuilding and repair facilities in ports
	627.224"321/324" Seasonal factors		—629.128
	"332" Individual months		Arrangements for temporary closing of ports. Floating barriers, booms, chains, hawsers etc.
	Details from Table I(g)		—672.6
.2	Freezing of ports. Icing up	627.4	RIVER BANK PROTECTION
.3	Break-up of ice. Melting of ice		STRAIGHTENING OF RIVERS AND STREAMS. OTHER RIVER IMPROVEMENT WORKS
.5	Ice-free, navigable period		—624.157; 627.222 and references there
.7	Maintaining use of port with icebreakers. Periods when possible	.41	River terraces. Alluvial deposits. Stabilization of steep banks
	—627.73	.411	Planting of banks (with ground cover).
23	Main parts or elements of ports, including roadsteads, breakwaters and inner harbour	.414	Turfing, grassing over
.231	Roadsteads. Anchorages. Mooring grounds	.415	Afforestation of banks. Tree and shrub planting
	—627.211	.417	Fascine work. Faggotting
.232	Port entrance. Harbour mouth	.418	—624.137.4
.233	Outer harbour		Revetment with stone paving, rubble, concrete, asphalt surfacing etc.
.234	Channel or fairway	.42	Stabilization of steep or vertical banks Sheet piling, campshedding. Retaining walls, embankment walls
.235	Breakwaters. Moles. Harbour dams. Harbour groynes. Jetties. Deep-water outworks	.421	Training works. Improvement of rivers by modification of bed or channel
	—627.52		Narrowing and restriction of watercourse. River groynes. Spurs. Ground sills. Training walls. Secondary dykes (wattle dykes).
.236	Inner harbour and basins		Mattresses
	—627.3	.422	—624.136; 627.514
24	Execution of maritime construction works	.423	Straightening of course. Cutting, excavation works
	—624.157; 626.02; 627.02	.424	—624.134; 627.47
.25	Protection of hydraulic construction works		Channel clearing, removal of obstacles.
26	Deterioration of harbour and maritime works	.425	Dredging
	Damage from erosion, corrosion, biological attack (marine organisms) etc.	.43	—627.513; 627.74
	—620.193	.431	Closing off tributaries, affluents, former channel
627 3	IN-PORT FACILITIES. DOCKS. WHARFS. QUAYS. INSTALLATIONS AND EQUIPMENT		Mixed systems of groynes and low dykes
.31	Docks. Dock installations (in general)		Improvement of rivers by damming works.
	—629.128		Weirs. Gated dams
.32	Service and storage structures in ports. Ancillary buildings. Dock warehouses, sheds, tanks etc.		—351.793; 627.82
.322	Sluicing basins (tidal basins)		627.43; 626.882 Weirs with fish passes
	—627.745		Fixed weirs
33	Mooring and berthing structures. Wharfs. Quays. Piers		
.332	Piers, jetties, landing stages (with framed construction)		
	—624.166		
.333	Projecting quays of massive construction (masonry and concrete quays)		

627.432	Movable weirs	627.533.6	Canals within polders. Drainage channels in polders
.3	Bar or beam weirs. Stop-log weirs. Needle, pin, post weirs. Blind weirs		—626.861
.4	Drum and shutter weirs	.7	Canals outside polders. Surrounding channels
.5	Sluice weirs. Bridge weirs	.534	Pumping stations. Water-raising machinery. Pumping operations
.6	Cylindrical weirs. Segment, sector and rolling-gate weirs	.536	Depoldering. Conversion or reversion of polders to unprotected land
.7	Siphon spillways		
.44	Narrows. Sluiceways	627.7	NAVIGATIONAL FACILITIES. CHANNEL MAINTENANCE. MARINE SALVAGE AND RESCUE FACILITIES
.45	Sluices, floodgates in rivers		Navigation facilities. Navigation aids and equipment. Beacons. Lane marking for shipping. Guiding and warning of shipping in channels and sea routes. Pilotage
	—626.4		—654.9 and references there, esp. 656.05
.47	Diversion of watercourses	.71	Fixed markers, indicators and guides. Radio and radar beacons (fixed)
	—627.422		Channel width and depth markers. Stakes etc.
627.5	OTHER WATERWAY PROTECTION AND IMPROVEMENT WORKS. DYKES. COAST PROTECTION. LAND DRAINAGE AND RECLAMATION	.712	Indicators of condition of fairway. Direction signs, pointers. Identification signs. Landmarks. Distance markers
	627.5:624.145 Coast protection from damage caused by floating ice	.2	Warning signs. Obstacle warnings. Sound signals (audible warnings) etc.
.51	Flood defences	.3	Floating markers, indicators and guides. Buoys. Marker buoys, beacon buoys etc.
	—351.792	.4	627.713 = 627.712
.511	Causes of flooding. Regime of rainfall and watercourses. Nature of terrain	.713	Anchoring or moving devices for floating markers and vessels in channels. Buoy moorings. Special anchors etc.
.512	Spates, floodwaters in watercourses. Prediction of spates	714	—627.338
.513	Preventive works. Channel clearing. Dredging	.715	Lighthouses and lightships (positioning, equipment etc.)
	—627.423; 627.74	2	—Table I(e) (21), (26), (28) etc.
.514	Longitudinal dykes, embankments. Levées. Plan, layout. Design and construction	.3	Positioning. Systems of arrangement: lateral, cardinal, axial
	—624.136	.4	Light intensity, visibility, colour
.2	River dykes. Summer and winter river dykes. Lateral dykes. Spur dykes (wing dams) etc.	5	Spread or sweep of light: all-round, sector, beam, revolving
.3	Sea dykes. Summer and winter sea dykes etc.	8	Duration of signal: continuous, intermittent (flash), wax-and-wane etc.
6	Dyke construction works. Dyke ramps. Openings, sluices in dykes. Dyke overflows, spillways	.717	Lantern. Lighthouse chamber. Optical and mechanical equipment
.515	Maintenance and protection of dykes. Reinforcement of dykes	.718	—628.9
.516	Flood control. Floodwater information services. Flood warnings, alarms. Opening of sluiceways, floodgates	72	Pilotage Pilot stations and equipment. Manoeuvring techniques and regulations
.517	Dyke breaches, bursts. Repair and reconstruction of dykes	.721	—656.071.7
	—351.793.18	.722	Towing and tug facilities in navigable channels
52	Shore protection. Coast protection. Defence of coast from effects of wind and waves		—626.75; 629.124; 656.076.7
	—627.222; 627.235	723	Nautical signalling. Weather signals Shore communication
521	Natural changes in shores. Erosion, undermining, drifting, deposition etc.	.724	—654.9 and references there, esp. 656.05
522	Protective structures against effects of waves. Revetment, fascining, paving etc.	.725	Signals indicating tides, water levels
	—624.137.4/5	.726	Signals for emergencies, poor visibility, bad weather Fog, storm and wind signals. Signal rockets, cannon etc. Audible signals (gongs, bells, sirens, horns, foghorns) Radio signals etc.
523	Protective structures against accumulation of sand and pebbles. Structures for stabilizing the shore		Weather signals, bulletins and forecasts for shipping
	—627.223.7; 627.74	727	—551.50
1	Deflection, diversion of littoral currents		Flag signals. Signal flags. Identification flags
2	Coastal groynes. Shore groynes	.73	—654.912
	—627.235; 627.421		Shore communication equipment. Semaphores (signalling apparatus). Heliographs. Signalling lamps. Shore telegraphs. Traffic control lights (for locks, ferries)
3	Periodic removal of pebbles etc.		Long-distance communication and signalling between shore and ships
524	Protective structures against effects of wind		—621.396, esp. 621.396.6, 621.396.96
	Construction of dunes Dune protection, stabilization, planting, afforestation		Distress signals. Distress rockets. Other SOS facilities on board
	—551.311.3, 551.435.74		Icebreaking service, facilities and equipment
53	Flood-prone lowlands and their protection. Drainage Reclamation Aggradation		—627.224; 629.124.79.1.2
532	Drainage, drying out		
533	Land reclamation Aggradation Land warping Polders		
	—627.514		
.1	Aggradation. Land warping. Soil deposition		
2	Polders (reclaimed land) in general Polders of great depth. High-risk polders		
.3	River polders		
4	Sea polders		
.5	Deep polders. Other kinds of polder		

627 74	Dredging, dragging and sluicing. Related channel and harbour maintenance work —627.423	627.8.07 (cont'd) 09	627 8 07 $\approx$ 624.07 Utilization of dams for water power (hydraulic energy) —621.221; 627.85
741	Dredging of rocky beds		
742	Dredging of hard, resistant beds	.091	Plants with high head of water. Storage plants. Pumped storage plants
743	Dredging of sandy beds		
744	Dredging of muddy, silty beds	.092	Plants with low head of water. River plants
745	Sluicing (for channel maintenance) —627.322	.093	Tidal energy plants. Wave energy plants —62-82; 620.91
746	Shore clearance. Bottom clearance —626.143; 627.356; 627 523	Principal divisions	
747	Rock removal. Blasting etc —622 23, esp. 622.235	627 81	Reservoirs. Storage ponds —556.55; 624.953
748	Floating equipment for channel and harbour maintenance. Dredging and sludge vessels —621.879	.815	Storage capacity
76	Marine salvage. Refloating and recovery of vessels (damaged, wrecked, sunken, grounded) —629 129	.82	Dams. Barrages <i>Class here information about dams for increasing the water level; for damming as river improvement — 627.43</i> —627.132; 627.51
77	Marine rescue, life-saving. Safety and survival of seafarers. Lifeboat service (land-based). Air-sea rescue —614.81; 627.727; 629 125 5; 656 08 (with 656.6)	.824	Earth dams. Rockfill dams. Gravity dams
777	Shipboard or shore rescue devices. Life-saving equipment. Life-preservers in general. Lifeboats and life-rafts (on board) Buoyancy devices, lifebuoys etc Lifebelts. Life-jackets etc. —614.818; 626.823.93	.2	Earth dams without core (including earth dams with surface reinforcement)
778	Underwater escape systems. Air locks, escape hatches in submarines etc.	.3	Earth dams with core. Rockfill dams
627 8	DAMS. HYDRAULIC POWER PLANT WORKS —351.793; 621.221; 621.311.21; 627.51; 628.1 627 8:624.1 Substructures, earthworks, foundations etc. for dams	.7	Gravity dams
Special auxiliary subdivisions		825	Arch dams
<i>The -1 auxiliaries listed under 62 are not applicable here</i>		826	Multiple arch dams
627 8 01	Dams etc. according to material and method of construction 627.8.01 $\approx$ 624.01	827	Multiple dome dams
.03	Dams etc. in particular conditions. Location and shape of dams	828	Cellular dams. Buttress dams. Dams of special construction
.034	Water in relation to dams etc.	83	Operating installations of dams. Draw-off and overflow structures. Spillways
.43	Water level at dams	.831	Overflow spillways
.6	Properties and composition of water in relation to structures in water	.832	Bottom-discharge conduits. Low-level outlets
.7	Detritus. Transported material. Precipitation. Deposits. Sediment. Silt	.833	Water outlets. Gates, sluices
.8	Cleaning affected parts of structure	.834	Shaft spillways. Morning glory spillways
.9	Protection from effects of water and air. Coatings, linings, facings etc. for dams. Sealing, draining of dams etc.	.835	Siphon spillways. Spillways with movable flaps
035.4	Underground structures for dams etc	.838	Energy dissipators. Stilling pools
036	Dams etc. according to layout, ground plan, shape	.84	Intake structures and conduits. Intake canals
.1	Straight	.842	Head race canals. Forebays. Pressure pipelines. Penstocks. Closing devices
.2	Oblique, skew	.846	Tunnels. Pressure tunnels
.3	Curved	.85	Surge tanks
04	Structural design. Graphical and analytical statics etc. 627.8.04 $\approx$ 624.04		Power houses —621 221, 621 311.21; 627 8 09
.05	Site organization for dam construction. Methods and equipment 627.8.05 $\approx$ 69.05 —624.13; 627.02; 693/694	.86	Tail race canals. Outlet or discharge canals
.06	Individual parts or structural areas of dams and reservoirs	.88	Ancillary structures. Gratings. Rakes
.064.2	Downstream face		Fishways. Log chutes. Sand traps etc.
.3	Upstream face	628	PUBLIC HEALTH ENGINEERING. WATER. SANITATION. ILLUMINATING ENGINEERING —351.77; 614.1/7
.4	Reservoir bottom	628.1	WATER SUPPLY, TREATMENT, CONSUMPTION AND USE —556.18; 556.38; 644.6; 663.6; 696.1; 725 193 628.1(1-21) Urban water supply (1-22) Rural water supply
.065	Core walls	Special auxiliary subdivisions	
.066	Crest of dam. Freeboard	628 1.03	Types of water. nature, state, properties <i>Denote physical, chemical and biological details by :53..., :54... and :57.</i> —543.3
.068	Inspection galleries in dams etc. —624.19	.032	Natural water. Raw water
.07	Structural elements of dams etc.	.033	Public supply water in general. Treated, potable water. Drinking water
		.034	Non-potable water. Industrial water. Wash water
		.036	Spring water and groundwater with special properties —553.7; 556.3; 613.38; 615.327; 615.838
		Principal divisions	
		628.11	Water sources. Water catchment, collection —626.81
		.111	Rainwater catchment. Rainwater storage in tanks, butts, cisterns etc. —621.642.3; 628.13
		.112	Spring water. Groundwater. Water extraction from wells, boreholes etc.

628.113	Surface water from natural and artificial sources. Water extraction from rivers, lakes etc.	628.17.08	Water metering methods —336.283; 681.121. Cf. 53.08
.5	Water extraction from the sea —551.464.09; 621.357; 628.165; 663.635	Principal divisions	
.116	Water extraction from the atmosphere, by condensation. Water collection in dewponds etc. —551.574	628.171	Specific total water requirement of an area. Estimates of future needs. Peak demand or load
.12	Water-raising, pumping and gravity systems. Pumping stations —621.227; 621.65	.173	Private, domestic water consumption 628.173:635-167 Water consumption for private gardens (watering, sprinkling, spraying etc.)
.13	Water storage. Water containers —621.642; 627.81; 628.111	.174	Public service water consumption 628.174:614.84 Water consumption for firefighting :625.768.7 Water consumption for street cleansing, road sprinkling
.132	Collecting tanks, reservoirs. Underground storage tanks. Collecting channels, leats	.175	Industrial water consumption 628.175:683.561.2 Water consumption for bottle- washing
.134	High-level, elevated storage tanks. Water towers —624.953	.176	Large-scale rural water consumption. Agricultural water consumption 628.176:631.67 Water consumption for agricultural irrigation
628.14	Conveyance of water from catchment point to distribution system. Trunk mains	.179	Water losses. Waste and waste prevention generally. Re-use of water —628.387
.142	Rating of water (estimation of output, capacity of source). Design and calculation of conduits —626.824	.19	Pollution of water sources and supply (causes, prevention and removal) —556.388
.143	Water conduits. Aqueducts, channels, pipelines. Pipe joints and fittings 628.143 ≈ 621.643 —626.132	191	Causes of pollution 628.191:578/579 Viral and microbial pollution :628.54 Pollution by industrial wastes, effluents
.145	Crossings and interconnections of water conduits. Aqueduct, bridge and level crossings. Siphons, tunnels, culverts etc. —626.823.8; 628.26	.192	Prevention and removal of pollution. Disinfection of wells, reservoirs, mains —614.777; 628.162; 628.515
.146	Regulating and closing devices. Valves. Cocks. Taps 628.146 ≈ 621.646	628.2	URBAN WATER REMOVAL. TOWN DRAINAGE, SEWERAGE
147	Construction and maintenance of water conduit systems —621.644	21	Sewerage systems
.1	Construction of conduits	.211	Combined sewerage systems
.2	Maintenance and repair of conduits	.212	Separate sewerage systems. Problem of entrance of extraneous rainwater (infiltration)
	Corrosion, incrustation etc. Pipe cleaning, flushing. Removal of obstructions, blockages. Thawing of frozen pipes	.22	Calculation of shape and size of sewers —628.311
148	Damage and defects in conduits Leaks, fractures, bursts	23	Ventilation of sewers. Ventilating shafts, columns, pipes. Sewer gas Ventilating mechanisms —628.8
.15	Water distribution systems. Local networks. Distribution and service mains	24	Design and construction of sewers
.153	Distribution mains. Distributor pipes	241	Main sewers. Intercepting sewers Branch mains. Outfall sewers. Ocean outfalls
155	Service pipes Communication pipes (from distribution mains to consumer's premises)	242	Site drains. House drains (collection lines) —696.13
	Supply pipes Connections	245	Drain pipes. Waste pipes
16	Water treatment. Processes, operations, plant and equipment. Waterworks practice in general —543.3; 614.777	246	Pipe connections, joints, junctions
Special auxiliary subdivisions		247	Construction of pipe sewers. Laying and replacement of pipes
628 16 04/ 09	Processes in water treatment Purification, filtration etc. Physical and chemical processes 628 16 04/ 09 ≈ 66 04/ 09	248	Construction of monolithic in-situ sewers
Principal divisions		25	Ancillary works to sewers and drains
628 161	Physical and mechanical treatment of raw water	251	Small branches. Street connections and traps Road gully traps
162	Chemical treatment of water. Demineralization Water softening. Removal of impurities Detoxication, disinfection, sterilization Chlorination Chemical additives Iodization, fluoridation etc —628.192	252	House connections. Private, domestic branches
163	Biological treatment of water <i>Details of clarification, sedimentation, filtration etc. by 0..., especially 06</i>	.253	Inspection chambers. Manholes Lamp holes. Covers. Ladders. Step-irons
165	Treatment of saline water (seawater, brackish water) Desalination <i>Details by 0 ..</i> —628.113.5 and references there	257	Valves and penstocks for sewers
.17	Water consumption. Water losses. Waste prevention	258	Overflows and regulators Storm overflows (separation weirs) etc.
Special auxiliary subdivision		.26	Crossings of watercourses. Siphons Sag pipes —626.8; 628.145
		.27	Blockage and fracture of sewers
		.28	Clearing, cleaning and flushing of sewers. Cleaning barges
		.282	Flushing installations. Reservoirs for flushing
		.288	Cleaning with pressurized water jets

628 29	Raising and discharging of sewage. Water-raising devices. Pumping stations Ejectors —621.65/.69	628 356.5 .6	Final sedimentation tanks. Excess activated sludge Pre-treatment before aeration Sedimentation. Pre-aeration. Biological filtration. Chemical treatment Sewage ponds (lagoons) Fish pond treatment Lagoons for complete treatment of sewage Lagoons for effluent treatment Fish ponds —626.886; 639.31
628.3	SEWAGE. SURFACE AND FOUL WATER. . PROPERTIES AND TREATMENT. SEWAGE WORKS —574.63	.357 .1 .2 .3	Pre-treatment before aeration Sedimentation. Pre-aeration. Biological filtration. Chemical treatment Land treatment of sewage. Sewage farms Use of sewage and waste in agriculture —626.841; 631.863; 631.879 2
31	Quantity, composition, properties of sewage. Examination. Sewage treatment systems	.6	Large-scale irrigation with sewage Sprinkling Irrigation by furrows Broad irrigation Sub-irrigation (subsurface irrigation) Intermittent filtration (land treatment) Conveying devices Drains and drainage of residues Utilizable contents of sewage Use of sludge as fertilizer —631.863; 631.879.2
311	Quantity, volume of sewage —628.22		Use of screenings as fertilizer Use of grease, fat, oil. Manufacture of by-products Use of grit Recovery of gas Use of waste water for industrial, domestic purposes etc. —628.179
312	Composition and properties of sewage Constituents	.36	Use of radioactive wastes —621.039.77
1	Sewage solids		Disposal of untreated, unusable waste into natural environments. Pollution of water, soil and air. Preventive measures —351.777.6; 543.3; 574.63; 614.7; 628.19; 628.472
2	Substances in solution	361	Disposal of wastes into natural waters, seas, rivers, lakes. Water pollution —556 388; 628 541 Details by (26/28) from Table I(e)
3	Measures for determining degree of pollution. Biochemical oxygen demand	362 .363	Primary pollution of waters Secondary pollution of waters Eutrophic pollution Self-purification of waters Preventive, anti-pollution measures —628.515
.4	Chemical oxygen demand	.364	Disposal of wastes into the atmosphere —551.510.4; 628.511/.512, 628.52
313	Sampling of sewage	.365	Disposal of wastes into the soil, geological strata, caverns. Underground disposal —628.516; 628.542
315	Sewage treatment systems (general questions)	.366 .367	
1	Comprehensive treatment	38	
2	Primary and secondary treatment (mechanical and biological)	381	
.3	Tertiary treatment	.382	
.32	Treatment plants. Sewage works —696.135/.138	.383	
321	Odour control —628.52 and references there	.384 .385 .387	
322	Disinfection		
33	Physical and mechanical sewage treatment		
334	Screening. Grease and grit removal —621.928	.388	
1	Screening. Disposal of screenings		
.2	Grit removal. Sand traps etc.	.39	
3	Grease removal. Separation by gravity, air current, vacuum		
4	Foam, scum removal		
5	Sedimentation process. Sedimentation or settling tanks	.394	
6	Stormwater tanks		
335	Flocculation (without addition of chemicals) Flocculation tanks		
.336	Sludge. Handling and disposal of sludge	.1	
.1	Raw sludge. Composition. Properties Details by :53, :54, :57	.2	
.2	Conveying of sludge. Sludge pipelines, channels. Sludge pumping	.4 .6	
.3	Sludge preparation. Concentrating, conditioning, elutriation of sludge	.395	
4	Dewatering and filtration of sludge		
5	Sludge digestion. Digested sludge	.396	
6	Sludge gas. Quantity, volume. Characteristics. Composition. Properties		
7	Sludge disposal		
337	Electrical sewage treatment	628 4	
34	Chemical sewage treatment		
341	Precipitation tanks (sedimentation tanks)		
342	Mixing, stirring machines		
344	Methods of precipitation (precipitation by various chemicals) Details by :54... or :66...	628 4.03 .032	
345	Coagulation		
.35	Biological sewage treatment		
352	Septic tanks in general		
.353	Trickling filters (percolating or biological filters). Contact beds. Contact aerators	.033	
.1	Trickling filter processes		
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.354	Sand filtration. Sand filters		
.1	Intermittent sand filters		
.2	Continuous sand filters. Magnetite filters		
.356	Activation methods. Activated sludge process .	.035	
.1	Diffused-air aeration		
2	Mechanical aeration		
.3	Aeration tanks		
.4	Re-aeration		

628.4.036	Builders' waste. Construction debris.	628.474	Disposal of refuse by burning, incineration
	Demolition debris		—662.65; 662.734
	—659.059.6	.3	Burning in incineration plant. Combustion processes
.037	Derelict cars, wrecks. Tyres. Scrap metal	.5	Kinds and sizes of incineration plant.
.038	Industrial waste. Manufacturing, factory waste (Waste deriving from production processes. Spoilt raw products. Faulty batches. Rejects. Casting sand. Fuel waste etc.)	.7	Arrangement of furnaces
	—658.567	.475	Operation and details of incineration plant
.04	Kinds of refuse	.477	Disposal of refuse by gasification. Pyrolysis
	<i>Details by -03 from Table I(k), -403/-405 from 62-4, etc.</i>	.2	Utilization of treated and untreated refuse and residues
.042	Readily decomposed refuse. Biodegradable wastes (Food scraps. Organic waste. Excreta. Garden and park refuse. Straw. Textiles. Leather etc.)	.3	Production of industrially useful substances from refuse (e.g. protein, alcohol)
.043	Refuse not readily decomposed. Barely degradable and non-degradable wastes (Wood. Pulp products. Slag. Clinker. Builders' waste. Rubble. Glass. Metal. Plastics. Rubber etc.)	.4	Use of compost in agriculture
.045	Chemical and explosive refuse (Poisonous, toxic wastes. Substances containing mercury, cyanide, chromium etc. Concentrated acids and alkalis. Noxious decomposition products, e.g. fluorine, chlorine, nitrous fumes)	.6	—631.879
	—620.26	.7	Quality requirements for compost. Methods for evaluating compost
.046	Disease-carrying refuse. Infectious wastes (Wastes from hospitals, clinics, operating theatres, surgeries. Wastes from pathological and bacteriological establishments. Corpses as waste. Refuse from medical research and nursing establishments)		Recovery, recycling and re-use of waste and scrap. Salvage of scrap
	—620.266.2; 628.513		—658.567
.047	Radioactive waste		Utilization of ash, slag, residual coke and tars from gasification
	—620.267; 621 039 7; 628 388		—662.613
.08	Measurement, determination, evaluation of waste. Calculation of amount of refuse	628.5	MEASURES AGAINST INDUSTRIAL AND OTHER NUISANCES
		.51	—331.822; 613.6; 614.7
Principal divisions		.511	Measures against industrial nuisances in general
628.42	Latrines. Cesspools. Collection and disposal of excreta		Measures against dust in general
.422	Bucket latrines		—543.275; 621.928.9;
.423	Pit latrines		551.510.4; 622.23.057;
.424	Other arrangements Soil-spreading systems (earth closets) etc.		613.633; 622.411.5;
.425	Public lavatories in general		614.715; 622.8/.81;
	—625 748.2; 696.14; 725 194		614.893/.894; 625.097
.427	Collection, conveying and disposal of excreta		62-758.31; 662 613.13;
.46	Urban cleansing. Collection and removal of refuse		62-784.4; 662.96;
	<i>Denote equipment and vehicles by 621.6... and 629..</i>		621.7.014.8; 699.87
.462	Urban cleansing. Street cleansing. Road sweeping. Watering of roads Sprinkling etc.	.12	Dust according to origin
	—351.777.614, 625 768	.122	Dust as intended product of a process (dust as end-product)
.463	Collection (storage) of refuse in containers. Refuse bins. Dustbins (garbage cans) Bulk rubbish containers, skips etc.	.123	Dust as unwanted by-product
.464	Collection of refuse in vehicles Refuse carts, vans, lorries, trucks Rubbish boats, barges	.124	Dust of geological origin
.465	Removal, transport, conveying of refuse	.125	Dust of cosmic origin
.47	Disposal and utilization of urban refuse	.13	Dust according to nature and content
	—351 777 61; 614 78; 628 38/ 39	.132	Organic dusts. Sugar dust, cereal dust, pollen etc.
.472	Disposal of refuse by dumping, tipping	.133	Inorganic dusts. Metallic, stone, mineral dusts
2	Uncontrolled public tipping	.134	Street dust
3	Controlled tipping Refuse tips, dumps	.135	Textile dust
4	Infilling of ground with refuse and sludge	.2	Prevention of dust formation
	—628 396	.4	Precipitation and filtering of dust
7	Dumping of refuse in sea, lakes or watercourses	512	Measures against toxic gases and vapours
	—628 394		Exhaust ducts
.473	Disposal of refuse by composting		—62-784.2; 623.459.8
2	Decomposition of organic matter. Study of rotting	513	Measures against infections, disease-carrying exhalations. Measures against bacteria
.3	Composting methods. Surface composting		—620.266.2; 628.4.046
4	Composting in silos, in fermentation cells	514	Measures against nuisance from steam, water vapour
	Design and structure of compost works.		—628.84; 697 9
	Processes for separate or combined decomposition of solid and liquid refuse	515	Measures against pollution of water
.6	Biology and hygiene of composting	.516	—614.777; 628.192; 628 394.6
			Measures against pollution of the soil
		517	—351.777.6; 614.76/.77; 628 396
		.2	Measures against acoustic nuisances
		.4	Measures against noise. Noise control
			—351.759.4; 534.83; 656.053.7; 699.844
		.518	Measures against vibrations
			—534.83; 699.84
			Measures against optical, electrical and other nuisances. Measures against heat, high temperatures
			628.518.535.21 Against light, visible radiation
			:539.16 Against radioactivity, ionizing radiation
		.52	Measures against industrial fumes, effluvia, smells, odours
			—628.321; 628.512/.514; 66.099 73; 699.87

628.521	Siting of factories —658.21	628.89	Influence of design and structure of building on indoor climate
522	Use of tall chimneys —624.971; 697.8	628.9	LIGHTING. ILLUMINATION ENGINEERING —535; 621.32, 622.47, 683.8
523	Condensation of fumes in water	Special auxiliary subdivisions	
524	Combustion of fumes in furnaces	628.9.02	Light from celestial bodies and the sky
.53	Measures against smoke and soot Smoke abatement	.021	Sunlight Daylight
532	Against smoke from domestic fires	.025	Moonlight
538	Against smoke from steam-powered generators, power houses	.026	Starlight
539	Against smoke from particular industries	.03	Luminescent light sources (Chemiluminescence Phosphorescence. Fluorescence Electroluminescence) —535.37, 667.526, 667.637.4
.54	Treatment of industrial or factory wastes and effluents	.04	Light from artificial light sources
541	Discharge of wastes into watercourses —628.394	04.1	Electric lamps —621.032; 621.32
542	Burying of wastes. Incineration of wastes —628.396; 628.474	045	Flaming torches (links) Flambeaux. Candles —662.126, 665.14, 665.194
543	Treatment and disposal of liquid wastes, effluents 628.543.3/.9 ≈ 628.33/.39	047	Fuel-burning lamps (gas-fired, oil fired) Use of other chemical reactions —683.8
.544	Treatment of solid wastes	.06	Systems and methods of lighting
.55	Artificial conditioning of the natural atmosphere. Fog and mist control Fog dispersal. Cloud dispersal etc. —551.509.6	.061	Direct lighting
.58	Measures against other nuisances 628.58 ≈ 699.8	.062	Indirect lighting (Concealed lighting Reflected lighting)
628.6	DRAINAGE AND SANITARY INSTALLATIONS OF BUILDINGS (PARTICULARLY PUBLIC HEALTH REQUIREMENTS) —351.778.5; 613.5; 644.68; 645.68; 696.14	.064	Directed or projected lighting Spotlighting. Floodlighting
628.8	INDOOR CLIMATE. AIR CONDITIONING. HEATING. VENTILATING <i>Mainly public health aspects, and particularly in large spaces, e.g. tunnels, arcades</i> —551.584.6; 62-784.1/.2, 622.4; 628.23, 644.1; 697	.066	Transillumination
	Special auxiliary subdivision	Principal divisions	
628.8.02	The human factor. Influences of occupancy	628.91	Technique of light production
Principal divisions		.92/.97	Illumination engineering. Technique of application of light
628.81	Heating generally, especially of large spaces	.92	Natural lighting. Daylighting of interiors
.82	Cooling generally, especially of large spaces	.921	Generalities. Design and calculation. Daylight factor (sky factor)
.83	Ventilation, especially of large spaces. Air distribution and movement	.922	Side lighting in general
.84	Air conditioning Technique and plant	.924	Fenestration. Location, number, dimensions and distribution of windows
.85	Physical criteria determining indoor climates	.925	Influence of light transmission properties of materials Type of glazing. Transparent, translucent and prismatic glazing. Effect of dirt
.852	Definition, nature, measurement	.926	Influence of reflection properties of materials Effect of dirt
.853	Temperatures. Air temperature. Wall temperature. Mean radiant temperature	.927	Influence of diffusion properties of materials (and of vapour, fog, smoke etc.)
.2	Humidity	.928	Top lighting (overhead lighting) Roof lighting. Lighting by skylights etc.
.3	Absolute humidity	.93	Artificial lighting
.854	Relative humidity	.932	Use of point sources (e.g. bulbs), line sources (strip lighting), plane or surface sources or diffusers (panel lighting)
.856	Air movement. Air circulation. Ventilation	.933	Use of three-dimensional diffusers, e.g. globes
.86	Composite criteria determining indoor climates. Definition, nature, measurement	.935	Influence of light transmission properties of materials. Effect of dirt
.862	Directly measurable values. Temperatures, thermometer readings. Kata value (cooling rate)	.936	Influence of reflection properties of materials
.863	Derivable values (not directly measurable) Comfort value etc.	.937	Influence of diffusion properties of materials (and of vapour, fog, smoke etc.)
.87	Comfort requirements. Indoor climate and body heat regulation —612.53	.938	Influence of colour of light
.88	Indoor climates associated with different types of heating, cooling and ventilating system. Measurements of installations	.94	Luminaires (lamps, lighting fittings) Light projectors. Beam-directing devices <i>Class complete fittings here. For luminous elements — 628.9.04 subdivisions and references</i>
.882	With independent room heaters	941	Fixed lamps. Built-in, fitted, ceiling and wall lamps etc.
.883	With central heating systems using hot air or gas as conductor (not emitted into rooms) —697.385	.943	Movable lamps connected to mains supply (electric or gas). Mains table lamps, standard lamps etc.
.884	With central heating systems using hot water —697.445	.944	Portable lamps (battery-powered or with portable fuel supply). Lanterns. Flashlights. Electric torches etc.
.885	With central heating systems using steam —697.515	.946	Light projectors. Lens projectors. Mirror projectors and reflectors. Combinations
.889	Effect of indoor climate measurements on ventilation and air-conditioning installations	.947	Reflectors without own light source
		.948	Building arrangements. Structural fittings. Recesses, screens, glass ceilings etc.

628.95	Accessories for lighting fittings. Parts, materials etc.	628.981	Evaluation of light sources
.952	Shades. Diffusers. Reflectors. Decorative lamp hangings —535.345.6		628.981:621.326 Evaluation of light from electric incandescent lamps, filament lamps
.955	Materials for lighting fittings. Optical characteristics of materials —666.24/.26	.984	Evaluation of luminaires (lamps, lighting fittings)
.97	Lighting according to the object illuminated. Special-purpose lighting	.987	Evaluation of lighting installations, complete systems
.971	Exterior lighting —625.745.8; 725.94		628.987:628.977.2:744.2 Evaluation of lighting installations in drawing offices
.6	Street lighting, fixed		
.7	Lighting of squares for public events. Lighting of sports grounds, stadiums etc.	629	TRANSPORT VEHICLE ENGINEERING —623.43; 623.7/.9; 625/627; 656
.8	Lighting of transport and communication spaces (except fixed street lighting). Lighting of parking areas, airstrips, terminuses, depots etc.	Special auxiliary subdivisions	
.9	Lighting for outdoor work	629-1/-9	Characteristics of vehicles and equipment <i>Details from 62-1/-9, except: 62-4 is not applicable under 629.1</i> <i>The following .0/.08 subdivisions are not applicable under 629.1, where an existing series of .0 subdivisions are still valid</i>
972	Interior lighting in general	629.01/.08	
.973	Interior lighting predominantly for atmosphere. Mood lighting. Lighting for psychological and aesthetic effect	.01	Vehicle design principles: characteristics, capabilities, tests
.1	Domestic, room lighting. Lighting in the home, dwellings, restaurants etc.	.012	Dimensions. Dimensional design
.2	Lighting of shops, shop windows, showrooms	.013	Weights. Tonnage. Capacity. Payload
.3	Lighting of theatres, cinemas etc.	.014	Functional capabilities
.4	Lighting of museums, galleries etc.	.015	Mechanics and dynamics in relation to medium, environment
.5	Lighting of churches	.016	Performance characteristics, capabilities. Assessment. Speed etc.
.974	Festive lighting and illuminations. Lighting for publicity, advertising. Architectural use of lighting	.017	Operational reliability, fitness for use. Stability. Controllability. Manoeuvrability. Braking capacity
6	Festive lighting and illuminations (e.g. of parks, fairgrounds, pleasure gardens) Lighting to enhance public buildings, fountains etc. —791.63	.018	Vehicle test procedures and equipment —629.072; 629.081; 629.086
.7	Lighting for publicity, advertising. Luminous signs (neon signs etc.) —659.135	02	Vehicle structure, construction principles, general layout and parts
8	Architectural use of lighting	021	Construction principles and properties (of whole or parts)
975	Lighting for signals, warning and direction signs —627.71/.72; 654.91; 656.054/.055; 656.25	.022	General layout, configuration, relation of parts to whole vehicle
976	Lighting of work areas, other than general room lighting. Localized lighting (for concentrated work, study) (E.g. Work lamps. Reading lamps. Desk lamps. Lamps on machines) —53.085.49	023	Vehicle shell, framework. Structural members
977	Interior lighting predominantly for work	024	Bodywork
1	Lighting of factories, workshops, workrooms	025	Special vehicle structures
2	Lighting of offices, drawing offices, art rooms, schoolrooms, libraries, ticket offices etc.	.026	Layout of propulsion unit structures —629.03
4	Lighting for health care and medical treatment. Hospital lighting etc	027	Support, suspension, shock-absorbing structures. Wheels etc.
7	Lighting of large halls, concourses etc.	028	Attachments. Couplings. Mountings and other auxiliary structures
8	Interior lighting of vehicles. Lighting of traffic installations, garages, signal boxes etc	.03	Propulsion systems <i>Further details by -8 from 62 and/or -621...</i> —629.026
978	Special-purpose lighting	031	Propulsion systems using muscle and natural forces
3	Fluorescent lighting	032	Wheel drive or propulsion systems
6	Emergency lighting Safety lighting with reserve power	033	Propulsion systems for particular kinds of vehicle, e.g. track and rack-and-pinion propulsion
7	Air-raid precautionary lighting Obscured lighting for black-outs —355.58 and references there	034	Propulsion systems for particular kinds of vehicle, e.g. rope, cable, chain and worm-gear propulsion
979	Specific effects of lighting Effects on humans, on other organisms 628.979:159.93 Lighting and the psychology of sensory perception. Psychological effect of lighting on humans :612.014.44 Physiological effect of lighting on humans	035	Propeller or screw propulsion systems
98	Evaluation of light (physical, technical, economic, physiological and psychological aspects)	036	Rocket or jet propulsion systems
		.038	Combined propulsion systems
		04	Interior layout accommodation, installation, equipment for persons and freight —629.06
		042	Interior layout and finish. Compartments Cabins etc.
		.043	Crew arrangements, stations and quarters. Control compartment
		044	Entry and exit arrangements: gangways, ladders etc.
		.045	Freight (cargo): loading, unloading, stowage and tie-down arrangements
		.046	Passenger comfort, service and hygiene arrangements

629.046 (cont'd)	<i>Further details by :64... and :684...</i>	Principal division	
047	Personal protection and safety installations and equipment	629.1	LAND VEHICLE AND WATER CRAFT ENGINEERING. SURFACE VEHICLES (EXCEPT RAIL)
	<i>Further details by :614.8...</i>		
	—629.067	Special auxiliary subdivisions	
048	Conditioning systems: air-conditioning, heating, ventilation, lighting	629 1-4	Employment and purpose of vehicles and craft
	<i>Further details by :628.8/9 and :697...</i>		<i>Alternatively — 629.114, 629 124 6/82</i>
05	Guidance, control-initiation and navigation systems (vehicle-borne)	-42	Tractors (active, towing vehicles) Towing craft generally
	—629.062; 629.066		—631.372
051	Principles and purpose of guidance and navigation systems	-43	Passive, towed vehicles and craft Trailers
052	Means of operation of guidance systems (acoustic, radio, optical, inertia etc.)	-44	Freight (goods, cargo) vehicles and craft
054	Instruments (vehicle-borne)	-441	Flat-decked vehicles and craft
	—53.08; 621.317; 681.2	-442	Tipping vehicles and craft
058	Operational characteristics (of systems and instruments)	-443	Closed and covered vehicles and craft, e.g. vans
06	Vehicle auxiliary systems and devices	-444	Vehicles and craft with cooling installations
	—629.04	-445	Refrigerated vehicles
062	Control-linking and reinforcing systems	6	Special freight vehicles and craft Luggage, mail vehicles etc.
	Servo controls etc.	7	For carrying gaseous, liquid, pulverous and granular materials. Tank vehicles Tankers
	—629.05	8	For carrying bulk and solid goods (e.g. foodstuffs, vegetables, timber poles, posts)
063	Auxiliary supply and feed systems for water, gas, fuel, lubricant etc.		For carrying animals, livestock (e.g. cattle, horses)
064	Auxiliary power systems (in general): pneumatic, hydraulic, electric etc.	-45	Public passenger transport vehicles and craft (in general). Vehicles and craft for hire
065	Materials handling equipment, including refuelling and revictualling devices	-453	Vehicles and craft for communal transport
	<i>Further details by :621.86/87</i>	-454	Buses (omnibuses) etc.
	—629.045	-454	Vehicles and craft for hire, for personal, individual transport. Taxis etc.
066	Observation signalling, communication and identification devices	-46	Private vehicles and craft
	—629.05	-464	Vehicles and craft for party travel (e.g. motor coaches, charabancs, mini-buses)
067	Vehicle safety and protection systems	-465	Vehicles and craft for health, medical, sanitary purposes. Ambulances Disinfection vehicles etc.
	<i>Further details by :614.8... and :656.08.</i>		
	—629.047	8	Hearses
069	Other vehicle auxiliary systems, e.g. armament	-467	Vehicles and craft with entertainment facilities (e.g. mobile theatres, cinemas)
07	Operational techniques	-468	Vehicles and craft for education, instruction, training Driving-school vehicles
071	Preliminary operations and preparations	-47	—629.11.014 9, 629 12 014.9
072	Driving, navigating, piloting technique (in general), including training	-474	Special-purpose vehicles and craft
073	Special (operational) techniques for particular conditions (weather, engine failure etc.)	.22	Industrial vehicles and craft. Workshop vehicles etc.
075	Starting, getting under way, take-off or launch techniques	.23	Crane vehicles and craft
	—629.085		—621.27
076	En-route, on-course operational techniques and performance	-476	For towing away. Breakdown vehicles and craft
	—629.086		—629.119 4
077	Stopping, slowing, docking and landing (of vehicles)	-477	Vehicles and craft for pilotage, police, customs
	—629.087		—614.85
08	Base equipment, installations and corresponding technical procedures	-479	Firefighting vehicles and craft
	—656.06; 711.7; 725.3		—614.846.6/9; 627.357; 629.114, 629 124.77
081	Workshop, vehicle shed or depot installations and equipment	-482	Other special-purpose vehicles and craft (e.g. snow-clearing vehicles. Snow-ploughs)
	—629.018	629 1 01	—624.144 55
082	Ancillary service or supply installations, depots and stores (for fuel, water etc.)	.011/ 012	Racing vehicles and craft
083	Maintenance, handling, servicing and repair of vehicles	013	Parts of vehicles and craft other than power plant
084	Spare parts and replacements: issue, stores, stock control	.1	Structural components of vehicles and craft
	—658.78	2	<i>These numbers are further subdivided under 629.11 and 629.12</i>
085	Base equipment and technical procedure for starting, take-off, launching	3/.5	Traction devices. Harness components
	—629.075	.35	Couplings
086	Base equipment and techniques for en-route control and tests: tracking etc.	.41	Traction, towing devices. Drawgear. Shafts, harness, traces, yoke etc.
	—629.018; 629.076	.5	Shock-absorbing devices. Buffers. Bumpers. Combined traction and shock-absorbing devices
087	Base equipment and technical procedure for stopping, slowing, landing		Couplings
	—629.077		Vertical bolt couplings
			Jaw couplings
			Various kinds of coupling. Coupling between trailer and towing vehicle. Coupling of air, gas, fuel lines etc.

629.1.013.8	Components of harness and couplings. Hooks, chains, fastenings etc.	629.1.037.28	Craft with detachable, interchangeable propulsion units (e.g. with outboard motor).
.014	Steering gear. Controls <i>This number is further subdivided under 629.11 and 629.12</i>		Craft with propulsion unit as separate body fixed integrally at rear (floating engine-rooms)
.015	Supports. Parking, mooring, landing gear	.038	Vehicles and craft with propulsion by airscrew (except aircraft) 629.1.038 ≈ 629.1.037
.018	Observation, indicating and warning equipment. Signals —654.9 and references there	.039	Air-cushion vehicles (ACVs. Hovercraft. Ground-effect machines. GEMs) —629.437
.1	Optical devices. Periscopes. Mirrors	.04	Equipment and furniture of vehicles and craft
.2	Acoustic signal apparatus. Sirens. Horns. Hooters	.041	Installations to counteract pitching and rolling. Installations to keep equipment horizontal
.3	Visual signal apparatus. Flags. Reflectors —628.947	.042	Sleeping and seating installations. Beds. Bunks. Seats. Benches. Headrests. Armrests. Supports for standing passengers, straphangers
.5	Direction indicators. Indicators of position of steering controls —656.054.3; 656.057.88	.043	Tables. Desks
.7	Communication devices to the interior and exterior of vehicle or craft. Telecommunication and intercommunication. Transmission of orders to engine room. Radio equipment —621.396	.044	Luggage racks. Luggage stands. Supports for accessories. Umbrella stands. Holders for containers, bottles etc. Lockers
.8	Identification marks. Registration marks. Name plates. Nationality plates. Number plates etc.	.045	Sanitary installations. Lavatories. Washing facilities
.02	Vehicles with propulsion through wheels	.046	Ladders. Stairways. Devices for boarding and alighting, embarking and disembarking. Gangways. Gang-boards (gang-planks). Rope ladders (Jacob's ladders) —629.12.011.57
.026	Rear-axle drive. Rear-wheel drive	.047	Equipment for protection against the weather. Awnings. Sun screens
.027	Front-axle drive. Front-wheel drive	.05	Indicating, measuring and recording instruments for vehicles and craft —53.08
.028	Drive through more than two wheels. Four-wheel drive. Six-wheel drive	.051	Consoles, mountings, panels, sockets and accessories for measuring instruments
.03	Vehicles and craft with propulsion other than through wheels —626.7	.052	Instruments for measuring depth. Bathymeters —531.717.3; 531.719.3; 629.12.014.55
.031	Vehicles and craft propelled by muscular strength —629.113.1	.053	Position indicators. Speed indicators
.1	Manual propulsion other than by oars. Driving cranks	.1	Position indicators. Instruments for determining coordinates, latitude, longitude
2	Propulsion by oars, paddles, poles —626.72	.2	Compasses. Sextants. Flow speed meters. Direction indicators. Course deviation indicators
3	Propulsion by foot. Pedal drive	.2	Speed indicators. Speedometers. Variometers. Anemometers
032	Tracked vehicles. Vehicles with wheels combined with other means of propulsion	.054	Attitude indicators. Inclinometers. Directional gyroscopes (gyrocompasses)
1	Tracked vehicles (crawler, caterpillar vehicles) —629.11.012.57; 629.115.8	.055	Other indicating, measuring and recording instruments, e.g. based on the action of fluid media
2	Half-tracked vehicles (with combined wheel and track drive)	.1	Indicators of static pressure
3	Half-sledge vehicles (with wheels and runners)	.2	Indicators of dynamic pressure
033	Vehicles with propulsion by claws, skids, runners etc. —629.111.7	.3	Indicators of direction of flow
034	Vehicles and craft with propulsion by fluid currents (water and air currents, wind). Propulsion by sails. Propulsion by Magnus effect (Flettner rotors)	.4	Indicators of load line and draft (e.g. Plimsoll line)
035	Vehicles and craft with propulsion by reaction pressure of water, gases, air. Rocket propulsion. Jet propulsion. Mixed propulsion, e.g. turbo-prop	5	Indicators of pitch and roll
036	Vehicles and craft with propulsion by paddle-wheels (vane-wheels)	.6	Indicators of water level in bilge, reservoirs etc.
2	With paddle-wheels at the sides	.056	Instruments for monitoring the propulsion system and fuel
3	With paddle-wheels at the stern	.2	Revolution counters —531.77
037	Craft with propeller or screw propulsion under water	.3	Pressure gauges —531.787
1	Propellers, screws in general	4	Thermometers —536.5
11	Conventional propellers	.6	Instruments for measuring mechanical or thermal energy. Power output meters —531.78
13	Counter-rotating propellers	.7	Instruments for measuring electrical quantities —621.317.7
14	Shrouded propellers. Turbine-type propeller drive	.8	Consumption meters —681.12
15	Hollow, concave propellers	.9	Quantity meters —681.128
16	Propellers with variable or adjustable pitch	.057	Various other monitoring instruments
2	Arrangement of propellers. Stern, bow and side propellers		
23	Conduction of water to the propeller. Propulsive tubes. Propellers in chambers, tunnels		

629 1 057.4	For monitoring the signal apparatus	629.11 011 683	Access and circulation areas Gangways
6	For monitoring the internal spaces		Corridors
8	For warning of freezing conditions, icing	012	Running gear. Suspension
058 1	Time-measuring instruments. Chronometers —529.7; 531.761; 681.11		—621 8
06	Installations and fittings of vehicles and craft. Lighting. Heating. Ventilation etc. —628.977.8	.1	Axles
.061	Water (storage and supply) installations	.111	Front axle
062	Gas installations	.112	Back axle
063	Steam installations	.14	According to function
065	Compressed air installations	.141	Rigid
066	Electric installations —621.3 16.17	.145	Oscillating, swinging axles
07	Physical characteristics and performance of vehicles and craft	.2	Axle components
071	Dimensions. Weight	.22	Stub axle
1	Dimensions (linear magnitudes). Length. Breadth. Depth	.24	Axle splines
.2	Cubic capacity. Gross tonnage. Net tonnage	.25	Axle bearings —621 822
5	Weight. Gross weight. Net weight, dead weight, tare. Fuel weight Load capacity Payload	.26	Lubrication —62-72; 621 89
072	Speed characteristics. Properties influencing speed	.27	Dust excluders Hub caps —62-763
2	High-speed vehicles	3	Wheels
.5	Drag. Fluid resistance (e.g. air or wind resistance). Streamlining —533.6	.311	Front wheels
.073	Relation between road, terrain etc. and stability of vehicle or craft. Travelling, riding characteristics (bumpiness etc.) 629.1.073 ≈ 625.03	.312	Back wheels (rear wheels)
.074	Fitness for use. Roadworthiness Seaworthiness. Reliability —656.085 1	.351	Driving wheels generally
075	Controllability. Dirigibility. Manoeuvrability	.354	Trailing wheels
076	Freeboard	.355	Steered wheels. Directional wheels
078	Amphibious characteristics	.38	Spare wheels Devices for changing wheels
Principal division		.4	Substitutes for wheels
		.42	Balls, spherical rollers
		.43	Skids Runners Guide shoes
		5	Tyres
		.51	Rigid tyres
		.517	Parts of rigid tyres. Flange, rim, chamfer etc. Tyre surface or tread
		52	Elastic tyres in general
		53	Solid elastic tyres
		.55	Pneumatic tyres Inflatable air-filled tyres
		.551	Pneumatic tyres according to construction
		2	Pneumatic tyres with inner tube —629 11 012.554
		.3	Tubeless pneumatic tyres
		.5	Multi-chamber, cellular tyres Tyres with hermetic air compartments
		6	Tyres with other emergency properties (e.g. foam-filled, externally or internally reinforced tyres)
		8	Pneumatic tyres with interchangeable tread (e.g. Pirelli system)
		.552	Pneumatic tyres according to pressure
		.2	High-pressure tyres
		.4	Medium-pressure tyres
		.6	Low-pressure tyres
		.553	Outer cover. Casing
		.554	Inner tubes
		.556	Inflation of tyres
		.558 4	Self-sealing tyres (which seal automatically when punctured)
		.57	Tracks (crawler or caterpillar tracks) —629.1.032.1; 629.115.8
		.6	Components of wheels
		.61	Rims
		62	Spokes
		64	Hubs. Wheel centres
		.7	Various devices. Protection against skidding
		.72	Anti-skid devices —624.144.8
		73	Lifting and support devices for vehicles. Jacks Ramps etc. —621.866; 629.119
		75	Security, locking devices for wheels Safety keys
		.8	Suspension. Shock absorption system
			Springs
		.82	Hydraulic suspension
		.83	Pneumatic suspension
		.85	Spring suspension. Springs 629.11.012.85 ≈ 62-272
		.013	Traction, towing devices. Drawgear. Couplings For subdivisions — 629.1 013
629 11	LAND VEHICLE ENGINEERING (EXCEPT RAIL VEHICLES). ROAD VEHICLES —629.4		
Special auxiliary subdivisions			
629 11 01	Parts of the vehicle other than the engine —62-58; 62-592		
011	Chassis and body		
.1	Chassis in general		
.11	Rigid chassis. Frames		
.12	Forecarriage (front-carriage) Hindcarriage Bogies. Subframes		
.15	Forks for bicycles, motorcycles		
.3	Parts of the frame		
31	Side or longitudinal members		
32	Cross or transverse members		
4	Chassis for special purposes Chassis for dual-purpose, road-rail or amphibious vehicles. Chassis for variable gauge etc		
5	Vehicle body and bodywork		
.521	Simple structure. Single deck		
.522	Structure with double deck 629.114.53.011.522 Double-decker omnibuses		
.6	Components of the body —674.25; 674.32		
.63	Panels. Side walls. Rear walls		
.64	Roof, top or cover. Soft, e.g. canvas covers. Roof hoods. Folding and collapsible hoods		
.65	Floor		
.66	Doors. Door accessories		
.67	Windows. Window-raisers or winders. Windscreens. Windscreen wipers		
.68	Parts and areas of the vehicle. Layout, arrangement, connection		
.681	Platforms. Connecting passages between passenger vehicles (e.g. telescopic connections, bellows or concertinas)		
.682	Vehicle interior. Passenger compartment or saloon		

629.11.014	Seating and personal support devices.	629.113.62	With external current supply (overhead lines, cables). Trolleybus system
	Steering gear		With current storage by accumulators, batteries
	—685.12	.65	
.1	Reins	.68	With mixed electric propulsion, e.g. with overhead lines, accumulator and/or diesel-electric motor
.2	Saddles for pedal cycles and motor cycles.		Motor vehicles according to purpose
	Bicycle seats		629.114 ≈ 629.1-4, e.g.
	—629.1.042	.114	629.114.2 Tractors (active, towing vehicles)
.3	Devices for mounting bicycles etc. Footrests		(from 629.1-42)
.5	Steering gear		.4 Freight (goods) vehicles.
.9	Teaching devices in the vehicle (for driving instruction)		Lorries, vans, trucks etc.
	—629.1-468		(from 629.1-44)
.015	Vehicle supports		.53 Communal passenger transport vehicles Buses (omnibuses) etc.
.61	Supports for bicycles. Bicycle stands. Bicycle racks. Supports attached to the bicycle		(from 629.1-453)
.018	Observation, indicating and warning equipment. Signals		.6 Private vehicles. Private cars etc.
	For subdivisions — 629.1.018		(from 629.1-46)
019	Various other devices. Sand sprinklers. Devices for increasing friction		
	—624.144.8		
.02/.07	Propulsion. Equipment. Installations. Instruments. Performance	.115	Motor vehicles according to number of wheels (more than two)
	For subdivisions — 629.1.02/.07		Three-wheeled vehicles
Principal divisions		.3	Four-wheeled vehicles
629.111	Primitive and simple conveyances	.6	Six-wheeled vehicles
.1	Conveyances carried by arm, on the back etc. For goods: panniers, slings, dossers etc. For persons: sedan chairs, litters, stretchers etc.	.8	Tracked vehicles (crawler, caterpillar vehicles)
			—629.1.032.1; 629.11.012.57
.3	Wheeled conveyances, pushed or pulled by hand	.118	Vehicles with one or two wheels
.31	For goods: barrows, hand-carts etc. Wheelbarrows. Porters' barrows. Luggage trucks. Sack barrows	.1	Early types of cycle. Velocipedes
	—621.868.23	.2	One-wheeled vehicles (unicycles, monocycles). Toy cycles. Scooters
.32	For persons: wheeled sedans, rickshaws etc. Wheelchairs (Bath chairs)	.3	Two-wheeled vehicles. Bicycles in general
	—615.478.3	.32	Two-seater bicycles (tandems)
.35	Devices (on wheeled conveyances) for negotiating steps or stairs	.35	Motorized bicycles. Mopeds. Motor-assisted bicycles
.4	Perambulators (prams) Pushchairs	.6	Motorcycles (motor-bicycles)
.7	Baby-carriages	.68	Motor scooters
.7	Sliding conveyances. Sledges Sleighs Toboggans	.7	Sidecars. Light trailers and ancillary vehicles
	—629.1.032.3; 629.1.033	.119	Installations and devices for servicing of vehicles. Vehicle washing plant (car washes). Inspection and repair pits. Fixed lifting devices. Vehicle hoists
.8	Transport on rollers	.4	—621.866; 629.11.012.73; 656.06; 725.382/.383
	—621.867.6	.5	Service vehicles. Recovery vehicles
112	Animal-drawn vehicles		—629.1-474.23
	—685.1		Filling, fuelling, refuelling installations Petrol pumps
1	Two-wheeled animal-drawn vehicles. Hansom cabs. Gigs Dog-carts English buggies		—656.065.3; 725.384
3	Animal-drawn vehicles with more than two wheels Horse-drawn trucks, carts, wagons etc Horse-drawn coaches, carriages, chaises etc	629.12	WATER CRAFT ENGINEERING SHIPBUILDING. BOATBUILDING
8	Safety devices for draught animals Devices for instant release of animal Devices to shield or protect animal		—621.12, 623.8; 626/627
113	Mechanically powered vehicles. Motor vehicles. Automobile engineering	Special auxiliary subdivisions	
1	Precursors and early types of motor vehicle	629.12.01	Parts of the craft other than the propulsion system
	Muscle-powered vehicles (manual or pedal drive) Spring-powered vehicles Early steam-powered vehicles etc	011	Structural parts. Hull. Superstructure
	—629.1.031		—674.25
2	Steam-powered road vehicles	1	Shapes. Forms Hull construction
	—621.14	11	Craft according to kind of deck Single-deck craft. Spar-deck craft. Shade-deck craft
3/5	Vehicles with internal combustion engines		Shelter-deck craft
	—621.43	12	Craft according to deck line or position of superstructure. Flush-deck craft Well-deck craft
3	Vehicles with gas engines and gas production on vehicle	13	Other kinds. Craft with turret decks Craft with trunk decks
4	Vehicles with gas engines and stored, compressed gas	17	Special hull shapes. Craft with buoyancy devices. Craft with rollers. Hulls of cylindrical section. Craft with multiple keels
5	Vehicles with internal combustion engines burning liquid or pulverous fuel Oil-burning vehicles. Petrol-engined vehicles	.2	Craft according to material
	Diesel-engined vehicles	.21	Wooden craft. Caulking of seams etc.
.6	Electrically driven motor vehicles	.22	Steel craft. Hull plating etc.
		.23	Craft of wood and steel
		.25	Craft of reinforced concrete
		.28	Craft of other materials (e.g. of synthetic resins, plastics)
		.5	Space allocation in craft. Layout

629.12.011.51/.54	Spaces for freight and passengers	629 122	Vessels for inland navigation. River craft.
51	Spaces for goods, freight, cargo. Holds. Luggage spaces. Strongrooms. Powder magazines. Cold stores for cargo —629.1-444	.1	Inland-water craft
.52	Storage spaces for water, fuel etc. Bunkers Tanks	.12	Inland-water craft with mechanical propulsion —626.7
.53	Passenger accommodation. Cabins. Assembly spaces. Saloons	.13	Steam-powered, with paddle-wheel Inland-water paddle-steamers
54	Accommodation for animals	.15	Steam-powered, with screw Inland-water screw-steamers
.55/ 58	Spaces for crew, services, machinery, propulsion system	2	Inland-water craft with traction by submerged chain Chain-ferries
.55	Crew's quarters. Service areas	3	Devices for walking, floating etc. on water Water skis Floats Surf-boards etc
551	Crew's quarters and cabins. Crew's mess Officers' mess	5	Simple freight craft. Barges, rafts etc (towed, rowed, sailed) —626.74
.552	Control, steering, navigation spaces. Command areas. Bridge	6	Ferries (generally) Short-haul craft Transshipment steamers
554	Domestic spaces. Ships' kitchens, galleys Larders. Cold stores for provisions. Laundries. Lavatories, bathrooms etc	.123	Inland-water craft specially designed for passenger transport
.555	Spaces for health services. Ships' hospitals, infirmaries, sanatoriums. Sick bays. Ships' pharmacies, dispensaries	1	Sea-going and ocean-going vessels. Craft for open seas. Ships
.556.1	Radio and telegraph cabins	.11	<i>Similar craft for large lakes and waterways are also classed here</i>
.562	Engine room. Boiler room	.12	Sea-going craft propelled by manpower or sail
.563	Funnels	.13	Ancient or primitive oar-propelled large craft Galleys, triremes etc.
.565	Workshops	.12	Ancient or primitive sailing craft Carracks
.567	Tunnels. Shaft tunnels. Pipe tunnels	.13	Nefs Galleons. Caravels (carvels)
.57	Companionways. Gangways. Gangplanks. Stairs. Steps. Rope ladders (Jacob's ladders) —629.1.046	.15	Large sailing craft (single-deck and multi-deck) Square-rigged vessels
.7	Parts of the hull	.16	Full-rigged ships Barks (barques)
.71	Bottoms. Bottom boards. Bilges. Centre-line keelson	.2	Barquentines. Schooners etc
.72	Struts. Strakes. Frames. Reverse and cant frames Deck beams. Keelsons. Deck supports	.21	Tenders. Lighters. Scows (flatboats)
.73	Deck plating. Wooden decks in steel ships	.22	Small sailing craft Luggers Cutters —629 124 72
74	Hull skin. Wood planking. Protective plating Guard-rails	3	Sea-going craft with mechanical propulsion
75	Water-tight bulkhead construction —629.12.011.88	.4	Sea-going paddle-steamers
.76	Bow Stern. Stem. Forestem. Afterstem Sternpost Rudder post. Screw stem	.56	Sea-going screw-ships
.77	Keels	6	Ocean liners. Sea-going passenger craft Mail boats Packet boats
83	Windows. Portholes. Side scuttles	.124	Sea-going freight craft Cargo boats or ships
.84	Hatches. Hawse holes. Hatch covers Skylights. Engine shafts	.2	Tanker ships
.88	Sheathing (wood, steel) Bulkheads Movable partitions —629.12.011.75	.3	Floating platforms for aircraft Aircraft carriers —623 822 7
014	Propulsion, manoeuvring, steering and control devices. Sails	6/.82	Special-purpose craft. Tugs. Trains of boats
.2	Sails. Masts. Spars. Yards. Booms. Rigging Tackle		—621.873 7; 626 75; 627.718
5	Steering and control devices. Interior control		Tugs (tugboats) River and sea-going tugs
.53	Devices to counteract instability, shocks Stabilizers. Shock absorbers		Trains of towed craft Barge trains. Trains of riverboats. Towed sea-going craft
.55	Sounding. Depth control in submarines —531.717.3; 531.719.3; 629.1.052		Private craft. Special-purpose craft
57	Direction-finding devices. Devices for taking bearings		629.124.6/.82 ≈ 629.1-46/-482 with some additions, e.g. 629 124.72 Craft for hunting, fishing.
.6	Rudders. Elevators (to control diving of submarines)		Fishing smacks Trawlers etc —639.2 06
.7	Compensating gear, especially for submarines. Water ballast control etc.		.722 Whaling craft. Whaleboats, whalers
.9	Devices for on-board navigational training —629.1-468		.77 Firefighting craft Fire-boats Firefloats
.015	Docking, mooring gear. Ships' fenders, buffer devices etc. Anchors. Anchor chains —672.6	.125	(from 629 1-477; see references to .791.2 Icebreakers —627.224.7; 627 73
.018	Observation, indicating and warning equipment. Signals For subdivisions — 629.1.018	.1	.82 Racing craft (e.g. racing yachts) (from 629.1-482)
.02/.07	Propulsion. Equipment. Installations. Instruments. Performance For subdivisions — 629.1.02/.07	.12	Pleasure craft. Sports craft. Small boats, dinghies
Principal divisions		.13	Sailing boats. Rowing-boats
629.121	Primitive and simple craft	.14	Sailing boats (sailboats). Sail yachts
		.2	Rowing-boats (rowboats). Paddling-boats. Skiffs. Scullers. Canoes
		5	Collapsible boats. Folding boats. Inflatable boats. Rubber dinghies etc.
			Small boats with mechanical propulsion.
			Motor boats. Cabin cruisers etc.
			Rescue craft. Rescue devices. Lifeboats.
			Life-rafts —627.77

629.125.8	Gliding, skimming craft. Hydrofoils.	629.4.024	External structure. Body shell, coachwork etc.
	Hydroplanes		—674.25
.127	Underwater vessels. Submarines	.025	Structures peculiar to railway rolling stock
	—623.827	.026	Arrangement of propulsion or power units
.128	Installations for construction and repair of craft. Shipyards. Boatyards. Docks	.027	Support, suspension and shock-absorbing structures. Wheels
	—627.31; 627.36	.1	Support in general. Axles. Axle-boxes
.2	Slipways. Scaffolding for building and repairing craft	.2	Bogies
.3	Stocks	.3	Suspension. Springs. Vertical shock-absorbers. Dampers
.4	Hauling slips	.4	Wheels. Tyres
.5	Docks. Wet docks. Dry docks (graving docks)	.412	Driving wheels
.6	Dock installations and equipment	.414	Load-bearing wheels
.129	Raising of sunken craft. Recovery of wrecks	.416	Guiding wheels
	—621.873.7; 627.76	.028	Coupling devices, buffers, connectors etc.
.2	Lifting, raising devices. Salvage craft	.1	Traction equipment. Drawgear. Drawbars. Couplings
.3	Lifting-docks. Other matters concerning wrecks	.2	Buffing gear. Buffers (horizontal shock-absorbers)
.47	Rescue and escape equipment		—625.156
629.4	RAIL VEHICLE ENGINEERING. LOCOMOTIVES. ROLLING STOCK. RAILWAY YARDS. INSTALLATIONS AND SERVICES CONCERNED WITH ROLLING STOCK	.3	Combined buffing and drawgear. Couplings with buffers
	—621.13; 621.33; 625.17.5	.42	Connectors for services (air and steam pipes, electric cables etc.)
Special auxiliary subdivisions		.5	Transitional couplings. Mixed couplings
629.4-1/-9	Characteristics of rail vehicles and equipment	.03	Propulsion systems. Power units
	<i>Details from 62-1/-9</i>	.031	Propulsion systems using natural forces, muscular strength, wind etc.
629.4.01	Design, characteristics and capabilities of rail vehicles. Tests	.032	Propulsion through wheels. Wheel drive
.012	Dimensions. Gauges	.033	Tracked propulsion. Toothed-wheel propulsion. Rack-and-pinion propulsion
.2	Arrangements for conforming to track gauges		—625.33; 629.421.6
.4	Arrangements for conforming to loading gauges	.034	Propulsion by cables, chains (cable-traction railways). Propulsion by endless screw (helical drive)
.5	Dimensions of bodies, chassis etc.		—625.39; 625.52
.013	Weights. Tonnage. Capacity. Payloads	.035	Propulsion by propeller or airscrew
2	Weight loading. Size loading	.036	Propulsion by reaction pressure Jet propulsion
22	Fuel weights. Bunkering capacity	.038	Combined propulsion systems
24	Freight loads. Payloads	.04	Interior layout of rail vehicles.
.015	Mechanics and dynamics of rolling stock. Interaction of rolling stock with track (with reference to rolling stock)		Accommodation, installations and equipment (for persons and freight)
	<i>With reference to track — 625.03, esp. 625 1.03</i>		—674.25
016	Performance characteristics and capabilities of rail vehicles. Assessment of power, speed etc.	.042	Interior layout and finish generally
1	Theoretical studies of speed and efficiency. Design formulas. Choice of fuel or power source	.2	Compartments. Berths. Saloons
2	Useful energy Installed power. Efficiency and fuel consumption	.4	Interior partitions
5	Speed	.5	Compartments. Berths. Corridors
52	Low speeds Up to 50 km/h (31.1 mile/h)	.7	Soundproofing. Thermal insulation.
54	Medium and high speeds. 51 - 200 km/h (31.2 - 124 mile/h)		Fireproofing
56	Very high speeds. Over 200 km/h (124 mile/h)	.043	Luggage racks
017	Operational reliability Stability Handling		Accommodation for train crew and staff.
	Braking capacity	.044	Driving and control compartments. Driver's or engineer's cabin Footplate
	—62-592, 629 4 077	.045	Arrangements for boarding and alighting, entry and exit. Steps. Gangways etc
018	Tests methods and equipment	.046	Freight handling and storage. Arrangements for loading, unloading, stowage, dunnage.
02	Structure of rail vehicles. Ideas and principles of construction. General layout and components	3	Securing and loss prevention for loose materials
021	Principles of construction Monocoque, rivetted, welded etc	.4	Arrangements for passenger comfort and service
022	General layout and configuration Relation of parts to whole	.7	Seats
023	Construction elements Shell Framework		Accessories. Window winders and adjusters
11	Underframe		Blinds. Fixed and folding surfaces, tables
14	Body Bodywork		Ashtrays. Mirrors etc.
15	Roof Superstructure		Sanitary installations. Lavatories Washing facilities. Other hygienic arrangements
16	Communicating parts Gangways Floorplates	.047	Installations and equipment for personal protection and safety Alarms,
17	Arrangements for entry and closure Doors. Steps		communication cords. Fire extinguishers etc
18	Sides of vehicles. Windows. Shutters etc	.048	Climatic control. Air conditioning Heating
2	Elements forming the base and framework of vehicles		Ventilation. Lighting
		.05	—628.8/9
		.052	Guidance and control systems on rail vehicles
		.2	Means of operation
		.3	Acoustic guidance systems
			Radio guidance systems (including television and radar)

629.4.052.5	Infra-red guidance systems	629.421.3	General-purpose locomotives. Locomotives for mixed trains
6	Optical guidance systems		Shunting locomotives
.7	Inertial guidance systems	.4	Works locomotives. Industrial locomotives
053.3	Automatic train control, with repeater signals shown on the engine	5	Mountain-railway locomotives
054	Vehicle-borne instruments	6	Rack-and-pinion engines —625.33; 629.4.033
058	Operational characteristics of systems and instruments	7	Articulated locomotives
.06	Auxiliary systems and equipment mounted on the vehicle or engine	.8	Locomotives without fireboxes. Locomotives using superheated water. Locomotives with steam reservoirs
062	Control linking and reinforcing systems. Power assistance (e.g. servo-motors)	422	Steam engines and tenders
.063	Auxiliary supply and feed systems (for water, gas, fuel, lubricant etc.)	.1	Various kinds of steam locomotive 629.422.1 ≈ 629.421 <i>Further details by -1/-9 from 62</i>
064	Auxiliary power systems (pneumatic, hydraulic, electric etc.)	2	Self-propelled steam carriages, railcars
065	Materials-handling systems (for loading baggage, freight, provisions, fuel). Fuelling, refuelling equipment. Revictualling systems	3	Components of steam engines —621.1, especially 621.13
.066	Observation, signalling, communication and identification devices —654.9 and references there	7	Tenders
.067	Safety and protection systems on rail vehicles. Emergency lighting. Emergency brakes. Dead man's handle. Anti-skid devices. Devices for clearing obstacles. Guard-irons (cowcatchers). Warning devices. Sirens. Klaxons	.423	Electric locomotives —62-83; 621.3
.07	Operational techniques —656.052	.1	Various kinds of electric locomotive 629.423.1 ≈ 629.421
.071	Preliminary operations. Preparation and adaptation of locomotives. Duty cycle of engines	.2	Self-propelled electric carriages, railcars. Multiple-unit electric trains. Electric motor-carriage units
.072	Driving and running techniques. Running trials. Crews. Rostering —629.4.086	.3	Components of electric locomotives —621.3, especially 621.33
.075	Starting up. Pulling away. Acceleration	.424	Rail traction by internal combustion engine. Diesel rail traction
076	Operational techniques and procedures during running	1	Various kinds of diesel locomotive —629.424.1 ≈ 629.421
.077	Deceleration, slowing, stopping. Brakes and braking <i>Details from 62-592; — 629.4.017; 629.4.087</i>	.2	Self-propelled diesel carriages, railcars. Multiple-unit diesel trains. Diesel motor-carriage units
.08	Installations at base or depot. Equipment and techniques for servicing rail vehicles <i>The .08 subdivisions provide general aspects which have equivalents in other forms of transport. For aspects peculiar to rail — 629.471.48</i> —656.06	3	Components of diesel locomotives —621.43, especially 621.436
.082	Ancillary service and supply installations. Supply depots and stores	.426	Locomotives with gas turbine engines 629.426 ≈ 629.421 —621.43, especially 621.438
.2	Supply of fuels (solid, liquid and gaseous fuels)	427	Motorized trucks and trolleys Track motor cars. Gang cars —621.43
.3	Supply of electric energy	.43	Rail transport using special engines. Engines and vehicles for town and suburban transport. Rail vehicles for short-distance transport generally —625.3/5
4	Supply of water —621.643.54	.431	Engines and vehicles for elevated railways
.5	Supply of lubricants. Greasing bays	432	Engines and vehicles for underground railways
6	Supply of sand. Sandboxes	.433	Engines and vehicles for tramways. Trams, tramcars
083	Maintenance. Handling, servicing and repair of rail vehicles —629.48	434	Engines and vehicles for town and suburban (surface) railways
084	Spare parts and replacements. Stock control, methods of issue, organization. Parts supply systems. Spares depots and stores —621.796 and references there	.435	Engines and vehicles for monorails
.085	Base equipment and technical procedure for starting	.436	Engines and vehicles for funiculars (cable railways)
.086	Base equipment and technical procedure for control and tests en route (e.g. for running trials) —629.4.072	437	Air-cushion rail vehicles. Hovertrains —629.1.039
.087	Base equipment and technical procedure for stopping, braking —629.4.077	438.2	Vehicles for very wide-gauge railways (rail vehicles for carrying road vehicles and other rail vehicles)
Principal divisions		4	Tubular railways (powered by compressed air or vacuum). Atmospheric railways
629.42	Kinds of traction. Motive power units	439	Engines and vehicles for other special rail systems. Engines with propeller, flywheel, gyroscope, compressed-air drive, nuclear power etc. —629.4.035
.421	Motive power units according to purpose and construction	.44	Passive stock. Hauled rail vehicles in general
		.45	Passenger stock. Passenger carriages, coaches
		.452	Coaches articulated at a common axle or bogie. Articulated trains. Taigo system
		.454	Coaches for international trains. Coaches for long hauls, with special accommodation etc.
		.22	Sleeping cars
		.25	Coaches with reclining berths (couchettes)

629.454.3	Restaurant cars. Dining cars. Refreshment cars. Bar, buffet, cafeteria cars	629.7	AIR AND SPACE TRANSPORT
.4	Saloon coaches (Pullman cars)		ENGINEERING. AERONAUTICS AND
.5	Platform coaches (double-decker or split-level cars). Observation cars. Canopy coaches		AIRCRAFT. ROCKETS AND MISSILES.
.456	Coaches with special equipment. Medically equipped ambulance or hospital coaches. Theatre or cinema coaches. Coaches for dancing. Exhibition and library coaches. Coaches for instruction, teaching		ASTRONAUTICS AND SPACECRAFT
.457	Coaches for high density of passengers. Suburban stock, commuter coaches		—341.226; 347.8; 351.814; 623.7; 656.7
.46	Freight stock. Miscellaneous rail vehicles	Special auxiliary subdivisions	
.462	Vans. Luggage and goods vans. Postal vans (mail vans)	629.7.01	Air/space vehicle design principles, characteristics and tests
.463	Goods wagons or trucks (freight cars)		—533.6; 629.7.021
.1	Closed and covered goods wagons	.012	Dimensions. Dimensional design
.12	Insulated, heated and refrigerated wagons. Cold-store wagons	.2	Overall length
.2	Specialized covered goods wagons (except hopper wagons). Wagons with sliding partitions. Wagons with openable end walls. Fruit and vegetable wagons. Stock cars, cattle trucks. Stable-wagons (rail horse-boxes)	.3	Breadth or span
.3	Tank and container wagons. Rail tankers etc.	.5	Depth or diameter
.4	Wagons for transport of automobiles. Car transporters	.013	Weights (overall or gross weights, payloads etc.)
.5	Wagons with opening roofs	.1	Construction weight
.6	Open goods wagons. Other kinds of wagon	.2	Empty weight. Tare weight
.62	Ordinary flat wagons (flat trucks or open trucks)	.3	Fuel weight
	—625.36	.5	Payload weight
63	Wagons for transport of lorries, trailers and containers. Container wagons	.014	Functional capabilities
64	Special wagons for transport of heavy loads	.015	Mechanics and dynamics in relation to the medium. Aerodynamic design problems. Strength requirements etc.
65	Tipper wagons	.016	Flight characteristics and capabilities (design considerations). Performance. Assessments
.66	Hopper wagons	.2	Altitude
464	Railway maintenance vehicles	.3	Range
22	Snow-clearing rail vehicles Railway snow-ploughs	.5	Speed
.24	Maintenance and repair trucks. Workshop wagons. Track-laying vehicles Ballast wagons. Platelayers' trolleys. Maintenance trains. Repair and rescue trains. Test wagons etc.	.52	Subsonic (up to Mach 1)
467	Multi-purpose rail vehicles. Vehicles for railway staff, personnel	.54	Supersonic (Mach 1 to 4.99)
47	Rail depots. Engine sheds. Sidings and their equipment	.017	Operational reliability. Airworthiness. Spaceworthiness
48	Large railway workshops and factories. Construction, assembly and repair shops for rail vehicles. Central workshops		—533.6.013; 656.085.1
	—629.4 083	.2	Stability. Controllability (attitude)
482	For construction and repair of engines, locomotives	.3	Manoeuvrability
483	For construction and repair of passenger carriages, coaches	018	Vehicle test procedures and equipment. Aeronautical laboratory equipment. Aircraft models. Wind tunnels etc.
484	For construction and repair of goods wagons, freight cars		—533.6.07
486	For repair of bogies and axles	.02	Air/space vehicle structure. Construction principles. General layout and parts
487	Specialized technical equipment for workshops	.021	Construction principles and properties (of whole or parts)
488	Maintenance, modification and repair of rolling stock (techniques and technology). Frequency and extent of maintenance operations	.022	General layout and configuration. Relation of parts to whole
23	Inspection and repair pits	.023	Shell. Framework. Structural members
24	Installations for removal and replacement of axles	.2	Skin. Coatings, panels, openings etc. Outer doors. Windows. Transparent hoods etc.
4	Equipment and installations for conversion of gauge	4	Structural members. Frames. Ribs, struts, bracing etc.
	—625 112; 629.4.012	8	Attachments between structural parts
5	Mounting on rails. Rerailers	024	Bodies
6	Removal from rails. Derailers	.1	Body shapes. Types of fuselage or hull
		3	Forebodies. Noses, cones etc.
		5	Main bodies. Centre sections
		.7	Afterbodies Tail booms
		.8	Bases
		025	Lifting and control surfaces Aerofoils. Wings. Stabilizers etc.
		.1	Wings in general. Monoplane, biplane, triplane etc Mainplanes Foreplanes
		.2	Tailplanes
		.3	Stabilizers in general
		4	Control surfaces in general. Slats, spoilers. Ailerons. Flaps. Airbreaks. Elevators, elevons
		4	Rudders
		5	Planform of wings and stabilizers Sweepback and sweepfore. Shapes: tapers, triangles, deltas etc.
		.6	Angles of wings, stabilizers etc.
		.7	Surface characteristics of wings, stabilizers etc. Area, profile, camber, twist. Taper ratio
		.8	Aspect ratio (span-chord ratio)
			Elements of wings, stabilizers etc Leading edges. Tips, wing-tips. Root. Trailing edges

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| 629 7.026 | Dynamic lifting and control structures.
Propulsion unit structures
Number of units, engines or motors.
Single-engine, twin-engine, multiple-engine aircraft etc.
Rotary lifting and control devices
—629 7.035
Propulsion-unit structures according to position. Propulsion units mounted in, on or near bodies, wings, rotors etc.
Undercarriages. Take-off, landing and mooring gear on vehicles
—629.7.085/.087
Main undercarriage assembly, wheel and track
Skids, skis and attachments, on aircraft etc.
Floats and attachments on aircraft etc.
Hydrofoils on aircraft etc.
—629.125.8
Arrestor hooks on aircraft etc. Similar short-landing devices
Mooring devices and gear on aircraft etc.
Attachments. Couplings. Auxiliary structures
Towing devices on aircraft etc.
Mountings and accessory booms or arms (e.g. for solar-cell paddles on spacecraft)
Auxiliary structures. Turrets, radomes etc.
Propulsion systems in air/space vehicles
Aircraft propulsion using natural forces, muscular strength etc. Human-powered aircraft
Airscrew propulsion: propeller, rotor, fan
—62-8; 621.4
Propellers: kinds and design
Tractor propellers
Pusher propellers
Variable-pitch propellers. Propellers with adjustable or controllable pitch. Feathering etc.
Contra-rotating propellers
Rotors
Fans
Propulsion by reaction pressure. Jet propulsion. Rocket propulsion etc
—621.45; 629.76
Propulsive duct (athodyd) Ramjet. Pulse-jet
Ramjet
Pulse-jet
Turbojet
Rocket propulsion
Electric and electromagnetic propulsion
Electrothermal propulsion. Arc jet (plasma arc)
Electrostatic, ion propulsion. Photon propulsion etc.
Electrodynamic propulsion. Plasma jet (plasma pinch using magneto-hydrodynamic forces)
Nuclear propulsion
—621.039.578
Combined propulsion systems
Interior layout of air/space vehicles. Accommodation. Installations. Equipment
Interior layout and finish. Compartments, cabins etc.
Internal skin. Coatings, linings. Bulkheads. Inner doors etc.
Crew accommodation. Captain's, pilot's compartments. Flight deck. Cockpit etc.
Arrangements for boarding and alighting, entry and exit. Steps. Gangways etc. (vehicle-borne)
Freight handling and storage. Arrangements for loading, unloading, stowage of cargo. Securing, tying down etc. | 629 7.046
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066 | Passenger comfort and service arrangements. Main compartment, saloon
Seats. Aircraft kitchens, galleys. Catering installations. Sanitary installations
Lavatories. Washing facilities Other hygienic arrangements
Personal protection and safety installations and equipment. Escape devices Ejector seats etc. Life-jackets. Protective clothing (e.g. space suits)
Life-support systems. Climate control (vehicle-borne systems). Air conditioning
Cabin pressurization Oxygen supply
Heating. Cooling. Lighting
Guidance, control-initiation and navigation systems and instruments (vehicle-borne)
Principles. Purpose
Initial control and guidance systems (for take-off and ascent)
Mid-course or en-route control and guidance systems. Collision avoidance Bad-weather avoidance. Terrain avoidance
Final or homing control and guidance systems. Approach, landing, rendezvous
Means of operation. Acoustic (e.g. sonar), radio (including radar), infra-red, optical and inertial systems
629 7.052 $\approx$ 629.4.052
Instruments
<i>Denote function by subdivisions of 629.7.058, replacing the digits 629 7.05 by an apostrophe, e.g.</i>
629.7.054'842 For indicating altitude.
Altimeters
(from 629.7.058 42)
'845 For indicating speed
Air-speed indicators
(from 629.7.058 45)
'847 For indicating attitude.
Artificial horizons
(from 629.7.058 47)
Basic characteristics of operation of observation and indicating devices
Functional capabilities of systems and instruments
Height or altitude measurement
—531.717.3; 531.719.4
Distance or range measurement
Indication of direction
Speed measurement
Indication of attitude (pitch, roll, yaw)
Operating functions. Transmitting, receiving, transponding
Methods of comparing measured parameters or received data. Amplitude, frequency, phase and travel-time comparison
Output. Display. Auditory, visual, direct-to-control and telemetric output
Elements. Gyro-inertial units. Mountings
Panels, dashboards etc.
Auxiliary systems and devices on air/space vehicles
Control linking and reinforcing systems. Servo control etc.
Auxiliary supply and feed systems (for water, gas, fuel, lubricant etc.)
Auxiliary power systems in general (pneumatic, hydraulic, electric etc.) Valves. Batteries. Auxiliary generators. Solar cells etc.
Materials-handling equipment (for provisions, fuel etc.) Fuelling, refuelling equipment.
Revictualling systems
—629.7.045
Observation devices (periscopes, astrodomes etc.). Signalling and indicating devices. Communication and intercommunication devices. Identification markings. Instruction markings
—654.9 and references there |
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629.7.067	Safety and protection systems on air/space vehicles. Icing prevention. Devices for removing ice and rain. Fire-extinguishing systems —614.8; 62-776; 62-787	629.7.087.4 .8	For landing on sea or other water surface For landing on extra-terrestrial sites (on artificial satellites, space stations, lunar surface, other celestial bodies)
	Operational techniques —351.814; 527; 656.052; 656.7	Principal divisions 629.73	Aeronautical engineering. Aircraft —533.61/.66
.07	Preliminary operations. Preparation of aircraft or spacecraft	.733	Lighter-than-air aircraft (aerostats)
.071	Pilot technique in general. Navigation, flying techniques, manoeuvres 629.7.072 = 656.052	.3 .5 .734/.735 .734	Balloons Airships (dirigibles) Heavier-than-air aircraft (aerodynes) Non-powered aerodynes. Gliders. Rotorchutes. Parachutes
.072	Special techniques for particular conditions. Flying in bad weather or terrain. Blind flying. Flying with engine failure etc. —656.052.5	.3	Fixed-wing (including flexible, variable-shape etc.). Gliders. Sailplanes. Kites
.073	Take-off and launch techniques (in rocket flight: lift-off. Separation of stages etc.)	.4 .7 .735	Moving-wing. Rotorchutes Wingless, e.g. parachutes Powered aerodynes. Aeroplanes. Rotorcraft etc.
.074	Operational techniques in flight. Flight performance. Flight phases. Climb phase, cruise phase etc. (in rocket flight: orbit phase, re-entry phase etc.)	.3	Fixed-wing aeroplanes (including tilt-wing, variable shape etc.)
.075	Descent and landing techniques	.33	Landplanes (only as distinct from seaplanes)
.076	Ground or base equipment, installations and techniques —625.717; 656.01/.09; 656.71; 725.39	.35 .4	Seaplanes (Float-seaplanes. Flying boats) Moving-wing, dynamic devices. Rotorcraft. Autogiros (gyroplanes). Helicopters. Ornithopters
.077	Hangar and workshop installations and equipment generally	.7	Wingless powered aircraft except rockets and missiles (e.g. flying bedstead, flying platform)
.078	Ancillary service and supply installations. Depots and stores for fuel, water, inflation gas etc.	.76	Rocket and missile engineering. Rockets. Missiles —621.45, esp. 621.454; 629.7.036
.079	Maintenance. Handling, service and repair of air/space vehicles	.762	Missiles (ballistic and non-ballistic) —623.4.08; 623.46
.080	Spare parts and replacements. Stock control, issue etc. Spares depots and stores —621.796 and references there	.764 .765	Space vehicle boosters High-altitude sounding rockets and near-space probes
.081	Base equipment and technical procedure for take-off, launching	.78	Spaceflight engineering. Astronautics. Spacecraft
.2	For take-off from ground surface or ship. Rails, cables, catapults. Take-off trolleys. Launching pads. Silos	.782	Fringe-flight winged spaceplanes (designed for controlled flight through atmosphere, orbiting manoeuvres and return to Earth)
.4	For take-off from sea or other water surface	.783	Artificial satellites (Navigational satellites. Communications or relay satellites)
.5	For take-off from underwater		Ferry and rendezvous space vehicles (for transporting personnel and equipment to orbital and interplanetary stations etc.)
.6	For take-off from aircraft	.784	Space probes (for moon, circumlunar, planetary, circumplanetary, sun and circumsolar flight)
.7	For take-off from balloons		Space stations (orbital, for research; not for landing or return)
.8	For take-off from extra-terrestrial base (from artificial satellites, space stations, lunar surface, other celestial bodies)	.785	Interplanetary vehicles for landing, without return
.086	Base equipment and technical procedure for trial and test flights. Tracking equipment	.786	Interplanetary vehicles for landing and return
.087	Base equipment and technical procedure for landing, arresting, mooring	.787	
.2	For landing within atmosphere, on ground surface or ship. Arrestor gear (nets, barriers, cables etc.). Mooring masts, pylons, towers etc. —629 7 027 6/ 7	.788	

63 AGRICULTURE AND RELATED SCIENCES AND TECHNIQUES. FORESTRY. FARMING. WILDLIFE EXPLOITATION

The special auxiliaries -1/-9 listed under 62 are also applicable in 63, with an exception noted at 633/635

630	FORESTRY	630*41	General technique of forest protection. Types of injury. Methods of damage and pest control
	<i>The subdivisions of 630 are a selection from the Oxford System of Decimal Classification for Forestry (Farnham Royal: Commonwealth Agricultural Bureaux, for International Union of Forestry Research Organizations, 1953).</i>	*43	Forest fires. Prevention and control. Salvage. Revegetation etc. Use of fire in silviculture —614.841.42; 631.588
	<i>For fruit-tree growing — 634.1/.6</i>	*5	Measurements of trees. Tree growth, increment. Development and structure of stands —528.48
630*1	Environmental factors in forestry. Forest biology	*52	Measurements of stem dimensions and volume (of trees, stands, forests and timber)
*11	Site factors. Climate, situation, soil in forestry. Forest hydrology and meteorology —631.96	*53	Special measurements of trees and stands. Crown dimensions. Stand density etc.
*2	Silviculture —631.962	*54	Assessment of forest site quality
*22	Silvicultural systems	*55	Age determination of trees —902.67
*221	High forest systems. Clear-felling system. Successive generation fellings. Continuous forest etc.	*8	Forest products and their utilization —674
*222	Coppice, pollarding and lopping systems	*81	Wood and bark. Their structure and properties
*228	Constitution and composition of stands. Forms of stand	*83	Timber industries and products. Uses of wood. Manufacture of wooden objects —674
*23	Regeneration and formation of stands	*85	Grading of wood and wood products. Timber quality
*231	Natural regeneration	*9	Forests and forestry from the national point of view. Forestry policy. Afforestation policy. Social economics of forestry —332.3; 630*233
*232	Artificial regeneration. Tree nursery practice. Sowing, planting and propagation of trees. Cuttings of trees		
*233	Afforestation of particular types of land —627.414; 627.524; 630*9	631/635	FARM MANAGEMENT. AGRONOMY. HORTICULTURE
*234	Formation of forest by natural succession		
*236	Care of plantations in initial stages	631	AGRICULTURE IN GENERAL 631-1/-9 Characteristics of agricultural machinery etc. Details from 62-1/-9
*237	Improvement, amelioration of forest sites —631.6		
*24	Tending of stands and trees		
*241	Cleanings	631.1	FARM MANAGEMENT AND ORGANIZATION —332
*242	Thinnings		
*245	Tending of trees —631.542	Special auxiliary subdivisions	
*25	Treatment of defective, derelict or very open stands	631.1.016	Establishment, growth, decline of farms or estates. Amalgamation, conversion etc.
*26	Combinations of forestry with agriculture and pastoral husbandry. Irrigated and floodland forests. Shelterbelts etc. and their treatment	.017	Size and extent of farm or estate 631.1.017 ≈ 65.017
*27	Ornamental arboriculture. Parks, arboreta. Hedges and hedge plants —712	.02	Special conditions, agreements etc. 631.1.02 ≈ 65.02, i.e. 631.1.027 Marketing and delivery conditions
*28	Forest husbandry. Growing and collection of forest products except wood. Bark, fruit and seed crops. Saps. Leaf crops. Osier, bamboo, cane-growing etc.	Principal divisions	
*3	Work science and work studies in forestry. Harvesting of wood. Logging and transport. Forest engineering	631.11	Farms, farm properties and farming systems
*32	Felling and related operations —621.93	.111	Farm location, site and land features (terrain)
*33	Degree of utilization and waste. Clearing the felling site	.115	Farms according to tenure, ownership and supervision. Systems of management
*34	Storage of wood in the forest. Storage at log dumps or landings	.1	Private farms. Family and partnership farms. Leasehold, tenant and sharecrop farms —347.453.1
*35	Performance measurements (for determining piece rates in felling and related operations)	.2	Manager farms. Corporation farms
*38	Forest engineering. Buildings, roads and bridges in forests. Protective works. Forest drainage, irrigation, waterways and stream training —626/627, esp. 626.8, 627.42, 627.53; 630*26	.6	Collective farms
*4	Forest injuries and protection —368.55; 502.7; 632	.7	Public enterprise farms. State, communal and municipal farms
		.117	Instructional, training, school farms.
		.12	Research, experimental farms. Agricultural research stations. Demonstration, pilot farms
		.14	Farm equipment and materials generally (selection, acquisition, maintenance etc.) —631.2; 631.3; 631.8
		.143	Farming and farms according to products and production Farming without livestock

631.145	Factory and farm enterprises combined. Industrialized farming generally —631.17	631.25	Sheds and other buildings for farm machinery and equipment. Tractor sheds etc. Farm workshops. Forges. Toolsheds
.147	Biotechnic, ecological farming (for alternative, intermediate and soft technology). Organic farming and farms	.27	Farmland boundary divisions. Enclosures. Hedges, hedgerows. Walls. Fences, fencing. Gates, stiles etc. Trenches. Ditches. Cattle-grids
.15	Farm production. Farm management. Farm administration		
.151	Systems of farm production and management (extensive, intensive, specialized, diversified, integrated)	631.3	AGRICULTURAL MACHINES, IMPLEMENTS AND EQUIPMENT
.152	Principles of farm production management. Expansion. Modernization. Technical innovations. Regrouping. Administrative modifications	Special auxiliary subdivisions	
.153	Planning of farm production —631.58	631.3-1/-9	Characteristics of agricultural machines, implements and equipment <i>Details from 62-1/-9</i>
.3	Choice of cultivation and husbandry system. Crop rotation, intercropping etc.	631.3.01	Vehicle components except power units 631.3.01 ≈ 629.11.01
.4	Choice of work method. Division of labour. Use of manual labour, animals or machines	.02	Components of farm machines and implements. Tools. Machine parts. Attachments <i>Further subdivided under 631.312, 631.33, 631.354, 631.361</i>
.5	Supervision of production plans	.06	Combinations of machines and implements. Sets of machines etc. for use in sequence, e.g. 631.356.2.06 Combinations of root harvesters with other machines (e.g. root crop topper + root crop lifter + root crop collector + loader and tipper)
.7	Changes in cultivation and production. Conversion to other systems		
.155	Farm production control. Goals and quotas. Crop supplies, losses and surpluses. Subsidies	.071	Animal-drawn (e.g. horse-drawn, ox-drawn) implements. Hand implements
.157	Farm business and office administration	.072	Towed implements for three-wheel, four-wheel and tracked or caterpillar tractors
.158	Farm work and personnel administration	.074	Towed implements for two-wheel tractors
.16	Farm finances and economic assessment	.076	Implements with their own motive power. Self-propelled machines and implements, except tractors. Motorized devices
.162	Farm financial administration. Accounting, bookkeeping etc.	.077	Cable-traction implements (rope or chain drive, winch-operated etc.)
.164	Agricultural estimation and valuation	Principal divisions	
.2	Principles of estimation	631.31	Soil cultivation machines and implements. Auxiliary machines and implements —631.51
.23	Investment of working capital	.311.5	Trenchers and ditchers. Trench-digging equipment. Machines for simultaneous trenching and drain-laying. Other machines for land improvement
.24	Valuation of crops (including land value)	.7	Uprooting machines and implements (for removing roots, stumps, bushes etc.). Rooting, grubbing, stumping devices. Stone pickers
.27	Valuation of by-products and wastes	.312	Ploughs
.165	Estimation of harvests and harvest failures	Special auxiliary subdivisions	
.17	Agricultural and farm technology —631.145/.147	631.312.02	Components of ploughs
171	Mechanization and automation of farming and agriculture	.021	Plough bodies. Ploughshares. Tines. Mouldboards. Furrow clearers. Plough discs
.172	Use of powered machinery —631.37	.024	Ancillary parts of ploughs. Knife coulters. Disc coulters. Skim coulters. Manure-burying coulters
.173	Organization of farm equipment and special services. Machine-tractor stations. Repair and technical stations. Services for joint use of machines	07	Ploughs according to motive power, e.g. 631.312.076 Powered, motorized ploughs .077 Cable-traction ploughs
631.2	FARM BUILDINGS, STRUCTURES AND INSTALLATIONS. BUILDINGS FOR LIVESTOCK, PRODUCE, MACHINERY AND EQUIPMENT —624.9; 628; 69; 721.059	Principal divisions	
21	Farmsteads. Groups of farm buildings. Farmyards. Outfarms. Multi-purpose farm buildings 631.21-628.4 Sanitary installations in farm buildings	631.312.2	Animal-drawn ploughs with shares
22	Livestock buildings and structures. Stables. Animal sheds. Cattle sheds. Cowsheds. Bull pens. Goat pens. Sheep pens. Pig houses, sties. Kennels. Aviary structures. Poultry houses, chicken coops. Houses and structures for other mammals and birds. Rooms and fittings —636 083.1	.3	Ploughing machines. Ploughs with movable tools. Rotary ploughs. Gyrotillers. Spading machines etc.
23	Plant breeding and nursery structures. Greenhouses (glasshouses). Forcing houses. Hotbeds —631.344; 631.544; 635.03	.4	Tractor ploughs with shares
.24	Buildings for storage, handling and processing of produce. Stores. Storage sheds. Granaries. Barns. Haybarns. Silos etc. —621.796.4; 631.56; 725.35/.36	.5	Subsoiling ploughs. Deep-digging ploughs
.248	Pits and other stores for manure and waste. Manure pits. Manure tanks. Compost pits. Compost heaps. Waste pits —631.333.92	.62	Ploughs modified for ridging, potato lifting, root-crop lifting, drawing furrows, hoeing
		.63	Ploughs with shares, for forming irrigation and drainage channels. Implements for cutting channels
		.68	Grubbing ploughs. Ploughs for land clearance
		.69	Paring or stubbing ploughs. Skim ploughs. Weeding ploughs
		.8	Disc ploughs
		.313	Harrows

631.314	Rollers for soil treatment. Clod crushers.	631.34	Machines and equipment for care and protection of plants
	Scrubbers		Cutting tools. Shears. Clippers. Secateurs.
.315	Hand tools for soil treatment. Weeding tools.	.342	Pruning knives. Bill-hooks and sickles for plant care. Axes. Hatchets. Saws etc.
	Garden tools		—621.93; 621.96; 672.71
.1	Digging or Dutch hoes. Spud hoes		Devices for covering and protecting plants.
.2	Draw-hoes (pulling hoes). Hand cultivators.	.344	Cloches. Cold frames. Shades. Greenhouse heating, ventilating, watering equipment
	Rotary hand-harrows. Ridging tools. Digging hooks		—631.23; 631.544
.4	Weeding tools	.3	Hotbeds. Heated frames. Forcing beds
.6	Soil rakes. Garden rakes	.4	Cold greenhouses (glasshouses)
.7	Spades. Shovels. Garden trowels. Digging forks	.5	Heated greenhouses (glasshouses)
.316	Cultivators. Machine hoes		Hothouses. Forcing houses
.2	Cultivators (e.g. rotary cultivators)	.345	Supports for plants. Sticks, canes, stakes.
.4	Machine hoes (for soil working in and between the rows). Machines and implements for thinning and singling plants	.347	Wires and cords. Training and tying devices
.5	Pasture aerators. Turf cutters		Watering appliances. Irrigation equipment.
.6	Machines for uprooting or cutting weeds	.2	Pipelines. Hoses. Hose reels
	Weeding machines	.3	Watering appliances. Watering cans
.317	Milling cultivators		Spraying equipment. Sprinklers. Sprays, spray-guns, jets
.319	Machines and implements for soil cultivation for planting and tending plants	.4	Rotary sprinklers
.2	Machines and implements for making channels, furrows and ridges (for planting, sowing, manuring). Implements for drawing furrows	.348	Machines and equipment for plant protection
.3	Machines and implements for making holes for planting, and covering them. Dibbling implements (for planting and care of row crops)		Pest deterrents, scarecrows, bird-scarers etc.
.4	Mulching machines		Traps, snares. Chemical pest and disease control. Fumigators. Smoke generators.
	—631.544.7		Herbicide and pesticide sprays. Weed-killing. Flame-guns. Other devices
.33	Machines and implements for sowing and planting. Fertilizer distributors	.35	—632, e.g. 632.934, 632.936, 632.982
Special auxiliary subdivisions			Harvesting equipment. Harvesters
631.33.02	Components. Details		—631.55
.021	Containers. Seed boxes for drills. Hoppers for fertilizer distributors	.351	Hand tools for harvesting. Simple harvesting tools. Scythes and sickles for harvesting.
.022	Feed and distributor mechanisms		Pitchforks. Hay and straw forks
.024	Devices for introducing the seed into the soil.	.352	Mowing machines in general
	Coulters, seed tubes, press wheels etc.		—631.354
Principal divisions		.92	Mowing machines for plants growing in water. Reed cutters. Reed mowers. Rush cutters
631.331	Machines for sowing	.93	Grass mowers. Lawnmowers. Lawn edgers
.1	Seed broadcasters	.353	Haymaking machines (except mowers)
.4	Ring rollers for making furrows	.2	Hay rakes. Hay turners. Hay sweeps. Hand rakes. Horse rakes. Buckrakes. Reel-type rakes. Reel and fork-type tedders. Combined rakes and turners. Side rakes and swath turners
.5	Seed drills. Band sowing (strip sowing) machines. Machines for drilling in rows.	.3	Hay loaders. Hay sweeps with tying device.
	Cluster and group sowing machines		Pick-up balers
.332	Planting machines. Machines and equipment for planting-out. Devices for preparing small plants and seedlings. Machines for making soil blocks	.354	—631.364
.5	Machines for pricking-out seedlings, planting pot plants etc.		Machines for cutting cereal crops. Binders.
.7	Potato planters		Combine harvesters
.81	Machines for planting in furrows	Special auxiliary subdivisions	
.87	Planting sticks	631.354.02	Machine components
.333	Fertilizer distributors. Manure spreaders.	.022	Cutting mechanisms. Fingers. Finger' bars.
	Machines and equipment for fertilizer preparation and distribution	.024	Knives. Knife sections
	—628.36; 631.816.3	.025	Binding devices. Packers. Needles. Knotters
.4	Equipment for spreading liquid manure.		Binder conveyors. Canvas conveyers. Chain conveyors. Loaders. Grain collectors, bins
.5	Manure tanks, pumps, sprays. Slurry tankers	Principal divisions	
.6	Machines for spreading pulverous (powder-form) and granular fertilizers	631.354.1	Binders
	Farmyard manure spreaders. Muckspreaders.	.2	Combine harvesters
	Machines for spreading animal dung, compost and peat	.3	Pickers. Headers. Machines for collecting the heads of clover crops etc.
.92	Equipment for comminuting farmyard manure. Manure storage pits. Treatment plant for farmyard and liquid manure. Devices for preparation of compost	.4	Sheaf binders
	—621.927; 628.473; 631.248	.355	Maize harvesters. Pickers, shellers, huskers etc.
.334	Sowing and planting machines combined with fertilizer distributors. Combine drills	.356	Machines and implements for gathering row crops
.335	Equipment for propagating plants by layering, grafting etc.	.2	Root harvesters. Lifting and topping devices (e.g. beet toppers) etc.
.336	Equipment for transplanting (e.g. for tree-transplanting)		—631.3.06 example
		.4	Potato harvesters
		.358	Harvesters for other crops
		.36	Denote particular crops by :633/635
			Machines and equipment for the preparation and storage of crops or produce. Machines and equipment for the preparation of feeding stuffs
			—631.56; 664.7

631.361	Machines and equipment for separating or removing parts of crops. Threshers	631.413	Electrochemical properties of soil. Ion exchange
Special auxiliary subdivisions		.2	Fixation
631.361.02	Components of threshers etc.	.3	Salt accumulation. Salt content
.022	Threshing devices, drums, sieves etc.	.4	Cation exchange
.025	Cleaning devices, shakers etc.	.414	Colloidal properties of soil
.026	Grain binders. Reaper-binders. Baling presses	.3	Absorption. Adsorption
.027	Straw conveyors	.415	Soil reaction. Soil acidity and alkalinity.
Principal divisions			Hydrogen ion concentration in soil (pH value) —541.132.3; 543.241; 543.257.1
631.361.1	Hand tools for binding sheaves, cutting chaff, threshing. Flails etc.	.2	Acidity. Acid soils
.2	Threshing machines (threshers)	.3	Alkalinity. Alkaline soils
.3	Winnowers	.7	Wild plants as indicators of soil reaction
.4	Clover hullers. Pod removers, shellers	.416	Inorganic chemistry of soil. Nature of various soil components
.5	Machines for seed or grain polishing etc.	.1	Nitrogen
.7	Machines and equipment for preparing fruits	.2	Phosphoric acid
.72	For splitting and separating flesh from kernels. For seed removal. For stoning fruit. For husk removal. For shelling nuts etc.	.4	Potassium
.8	Machines and equipment for cutting vegetables and fruit. Chopping and dicing machines. Comminuting machines. Grinders, crushers, squeezers. Juice extractors —621.927; 664.7	.5	Sodium
.362	Machines and equipment for cleaning and sorting produce. Containers, sieves etc. —621.928; 66.047; 66.067	.7	Calcium
.1	Simple devices. Shovels. Sieves. Tanks	.417	Organic chemistry of soil
.3	Cleaning and sorting machines. Blowers, centrifugal separators etc. Sorters and graders	.1	Carbon content
.5	Machines for removing the covering of seed crops (hull, husk, chaff removal etc.).	.2	Humus content
.6	Machines for picking and processing hops	.4	Carbon: nitrogen ratio
	Machines for washing produce. Centrifugal machines. Machines for removing chemical residues (e.g. pesticides from fruits) —632.95.028	.421	Soil analyses and experiments
.363	Machines and equipment for preparing feeding stuffs, fodder	.422	Field and pot experiments. Statistical methods. Lysimetry
.1	Ensilage, fermentation equipment. Silos (for fodder)	.423	Qualitative soil analysis 631.422 ≈ 631.423
2	Comminuting machines. Grinders, crushers, squeezers (for fodder). Fodder chopping machines. Machines for pressing, compressing, cubing etc. Food mashers —621.927; 664.7	.2	Quantitative soil analysis —54.062; 543.06
5	Equipment for heat treatment of fodder (e.g. steamers for fodder)	.5	Water content. Moisture content —631.432.2
.364	Equipment for bundling, trussing, tying etc.	.6	Dissolved salts
.365	Bagging machines. Packing machines	.7	Composition of soil air
.37	Equipment for drying, airing, ventilation of produce. Driers. Crop ventilators —664.723	.425	Determination of exchangeable bases
	Machines and equipment for providing power and traction. Agricultural transport equipment —631.565	.427	Physical soil analysis 631.425 ≈ 631.43
371	Machines and equipment for providing motive power, drive —62-8	.1	Biological soil analysis —631.46
372	Powered vehicles. Tractors etc. <i>Details by :629... Cf 629.1-42; 629.114.2</i>	.2	Macrobiological analysis
373	Non-powered vehicles. Farm carts. Trailers <i>Details by :629... Cf 629.1-43</i>	.3	Microbiological analysis. Examination of microflora and microfauna
374	Conveying equipment. Loading and unloading gear (other than structural fixtures) —621.86/.87	.4	Analysis by means of plants
631.4	SOIL SCIENCE. PEDOLOGY. SOIL RESEARCH —622.011.4; 624.131, esp. 624.131.4; 626.8	.43	Analysis by means of microbes
41	Chemical and physicochemical soil properties 631.41:631.811 Soil properties as regards plant nutrition. Nutrient content of soil	.431	Physical and mechanical properties of soil
		.432	Mechanical properties of soil
		.1	Groundwater. Agricultural hydrology —556.3; 626.8; 628.1
		.2	Water table. Phreatic surface
		.3	Soil moisture —631.423.2
		.433.1	Permeability. Lessivage. Leaching. Mobility of soil constituents
		.2	Soil aeration
		.5	Conditions of anaerobiosis. Soil reduction
		.434	Composition of soil atmosphere
		.435	Soil structure. Soil porosity
		.436	Granulometric composition of soil
		.437	Soil texture
		.438	Thermal properties of soil
		.44	Electrical and magnetic properties of soil
		.442	Radioactivity of soil
			Classification of soils
			Traditional classification of soils (mainly according to texture and chemical composition) <i>Mixed soils may be denoted by combining the following subdivisions by means of the apostrophe (Auxiliary tables, Section II)</i>
		.1	Sandy soil (arenaceous soil)
		.1'2	Silico-calcareous soil
		.2	Lime-bearing soil (calcareous soil)
		.3	Silty soil. Loam
		.4	Clay soil (argillaceous soil)
		.4'1	Clay-sand soil (argillaceous sandy soil). Allitic soil
		.4'2	Clay-lime soil (calcareous clay). Marl
		.445	Genetic classification of soils

631.445.1	Hydromorphic soils. Tundra, moorland, bog soils. Peats. Gleys. Vlei etc.	631.53.02	Seed production. Collection, storage and treatment of seeds
.2	Podzolic soils. Podzols	.03	Cultivation of young plants, seedlings etc. Pricking out. Nurseries —635.03
.3	Brown soils. Brown earths	.04	Sowing. Planting. Transplanting
.4	Chernozemic soils. Chernozem (black earth).	Principal divisions	
.5	Arid soils. Desert soils	631.53.1	Seeds and spores —631.576.3
.6	Mediterranean soils. Krasnozems (red soils). Terra rossa etc.	.532	Propagation by separation of part of a growing plant —581.165.7
.7	Tropical and subtropical soils. Tropical red loams, black soils (tirs, regur, grumusol) etc.	.1	Using bulbs
.8	Rendzinas. Calcareous brown soils	.2	Using tubers. Division of tubers into parts with one eye each
.45	Soil fertility and toxicity	3	Division or separation of clumps
	—632.12	.533	Detachment of separate plants
.452	Soil fertility	.1	Suckers from the collar or stump
.453	Soil toxicity	.2	Stolons
.454	Manurial requirement of soil	.3	Terminal and proliferous buds Plantlets, bulbils etc.
.458	Impoverishment of soil. Soil exhaustion —631.584.9	.534	Propagation by layering
.459	Erosion —551.3.053; 632.125	.535	Propagation by cutting. Cuttings
.46	Soil bacteriology. Soil biology	.54	Tending and care of plants —635.04
	—631.427	.541	Grafting
.461	Zymotic microbes of the soil. Soil bacteria. Soil microbiology —579.64; 579.8; 582.231	.1	Choice of stock (recipient plant) and scion or graft. Compatibility
.1	Ammonifying bacteria. Ureolytic bacteria. Proteolysis. Ammonification	.3	Grafting methods. Cleft, splice, saddle and side grafting. Inlaid crown grafting. Herbaceous grafting
.2	Nitrite-forming bacteria	.4	Grafting according to the position of the graft on the stock. Grafting on the root, crown, stem, apex
.3	Nitrate-forming bacteria. Nitrification	.5	Shield grafting (with shield-buds)
.4	Denitrification	.6	Grafting by approach (inarching)
.5	Nitrogen-fixing bacteria. Nitrogen fixation	.7	Tying-in and protection of the graft
.6	Decomposition of non-nitrogenous compounds (cellulose, other carbohydrates)	.8	Internal grafting
.7	Conversion of inorganic substances, minerals. Sulphur bacteria. Iron bacteria. Phosphate bacteria. Others	.542	Cutting back. Pruning —630*245
.462	Soil sterilization, disinfection	.1	Winter pruning
.463	Antibiotics. Microbial antagonism	.2	Summer pruning
.466	Other microflora. Fungi. Mycorrhiza. Yeasts. Rod-shaped bacteria (Actinomycetales). Algae	.3	Cutting, trimming of plants for particular purposes. Shaping the plant. Cutting for growth. Removal of diseased parts etc.
.467	Microfauna. Protozoa. Nematodes	.543	Planting —631.53.04
.468	Macrofauna and mesofauna. Animals in the soil —59	.1	General questions. Positioning, situation of plant. Effect of light and shade etc.
.47	Surveying, classification and utilization of land. Soil profiles. Litter. Humus. Topsoil. Subsoil etc. Micropedology	.2	Density of planting. Spacing
.48	Pedogenesis. Soil formation —551.435.1/.2	.3	Planting methods
.482	Soil formation by physical and mechanical processes. Alluvial and diluvial soils —551.311.23	.8	Kinds of planting. Site in general. Spacing (of rows; of plants). Planting for shade, as shelter. Care and protection of plantations —630*26; 630*8; 631.544.7
.483	Soil formation by chemical means	.544	Protection and shelter of plants. Cultivation under cover —631.23; 631.344
.484	Soil formation by biological means (plant, bacterial, animal action)	.2	Hotbed cultivation. Cultivation in hot and cold frames
.485	Transported and displaced soil —551.311.24	.4	Greenhouse (glasshouse) cultivation
631.5	AGRICULTURAL OPERATIONS	.7	Cultivation under various coverings
.51	Soil preparation and ploughing —631.31	.546	Protection and covering of soil. Transparent sheeting. Mulching and mulches. Shelter plants. Windbreaks etc. —626.846; 631.319.4; 631.543.8
.52	Improvement of plant strains. Applied genetics. Selection etc.	.547	Natural and artificial forms, shapes. Staked, vertical, erect forms. Espalier forms. Trellised forms. Wall training. Arbours, bowers. Pergolas. Horizontal cordon training
.522	Biology of plant reproduction 631.522 ≈ 581.16	.1	Phases and control of plant growth
.523	Applied genetics —575	.2	Germination. Seedlings
.524	Variation of characteristics —581.15	.3	Growth
.526	Groups and types of cultivated plant	.4	Full development
.527	Improvement by selection (natural and artificial selection). Selective plant breeding	.5	Flowering. Blossoming. Artificial stimulation of flowering —631.811.98
.528	Improvement by mutation (natural and induced mutation)	.6	Fruiting. Fructification
.529	Acclimatization		Ripening. Maturing. Artificial ripening
.53	Plant propagation. Vegetative propagation —581.165		
Special auxiliary subdivisions			

631.55	Gathering. Harvesting. Crop —631.35	631.67	Irrigation —626.81/.84; 628.1
Special auxiliary subdivisions		.671	Water requirement
631.55.032	Harvesting before maturity. Harvesting unripe	.674	Irrigation methods
.034	Multiple harvesting. First, second crop etc.	.675	Rate and time of irrigation. Irrigation parameters
.035	Gleaning		
Principal divisions		631.8	FERTILIZERS, MANURES AND SOIL ENRICHMENT. PROMOTION OF GROWTH. PLANT STIMULANTS —631.454
631.552	Cutting. Mowing. Scything	Special auxiliary subdivision	
.554	Harvesting, reaping of grain crops	631.8.022.3	Additives 631.8.022.3 ≈ 66.022.3
.558	Harvesting of other crops	Principal division	
.1	Harvesting of fruits, nuts etc.	631.81	Generalities. Plant nutrients. Production and use of fertilizers, manures
.3	Harvesting of legumes (vegetables), pulses (peas, beans etc.)	Special auxiliary subdivisions	
.4	Harvesting of root and tuber crops	631.81.031	Absorption, uptake of nutrients
.5	Harvesting of fibre crops (flax, hemp, cotton etc.)	.033	Conversion and distribution in the plant
.6	Harvesting of sugar cane	.036	Biodynamic processes
.8	Harvesting of saps, gums, resins etc.	.095.337	Requirement for certain elements. Essential micronutrients. Trace elements
.559	Harvest yield	.338	Lack of certain elements. Mineral deficiency
.56	Preparation of produce. Treatment after harvesting	Principal divisions	
.561	Threshing. Separation of fruit from husk. Hulling, shelling, paring etc. 631.561 ≈ 631.361	631.811	Plant nutrition. Elements required. Plant stimulants
.562	Cleaning and sorting of produce. Winnowing. Sieving. Peeling. Washing etc. —631.562 ≈ 631.362	.98	Plant stimulants (for artificial promotion of growth without manuring). Plant growth regulators, hormones —581.192; 631.547.4
.563	Storage of produce. Preparation, drying, comminuting etc. Ensilage —631.24; 631.363; 631.365	.812	Production, preparation, storage etc. of fertilizers. Constitution and form of fertilizers Denote state of aggregation by -403/-405 and -492.2/.3 from 62
.564	Packing —621.798; 631.364	.813	Composition, reaction (pH value), toxicity and reciprocal reactions of fertilizers —543
.565	Transport —629; 631.37; 656	.816	Application and distribution of fertilizers
.57	Products, by-products and semi-finished products of agriculture —630*8; 635.07	.1	Doses. Rates of application
.571	Wood. Bark	.2	Time of application (e.g. before, at, after sowing) —Table I(g), e.g. "32"
.572	Stems. Fibres. Straw	.3	Method of application. Broadcasting, placement, injection, spraying (in aqueous solution), dusting (aerial application) etc. —631.333
.573	Roots. Tubers. Bulbs	.82	Mineral amendments. Artificial fertilizers in general
.574	Leaves. Foliage	.821	Lime. Chalk. Gypsum —666.92
.575	Flowers. Blossoms	.822	Marl
.576	Fruits. Parts of fruit	.823	Polyelectrolytes. Soil conditioners
.2	Whole fruits and nuts	.824	Magnesium
.3	Seeds as products. Cereals. Nuts without shells —631.531	.825	Iron sulphate
.4	Fruit skins, peel, rind. Husk. Fibres. Bran	.826	Silt from inundations. Alluvium —627.533.1
.577	Plant juices, saps, gums, essences etc.	.829	Combustion gases. Carbon dioxide
.58	Particular cultivation systems —631.153	.83	Potassium fertilizers
581	Fallowing	.831	Wood ash. Plant ash. Peat ash —674.88
582	Crop rotation	.832	Chlorides
583	Intensive cultivation	.833	Sulphates
.584 2	Catch crop system	.834	Crude potash salts
.4	Cover crop system	.835	Sylvinites
9	Exhaustive cropping	.836	Silicates
585	Pastoral system. Transhumance	.837	Carbonates
586	Dry farming. Use of deeper soil levels	.84	Nitrogen fertilizers
587	Cultivation on irrigated land	.841	Ammonium fertilizers. Amides
588	Cultivation using special phenomena. Use of electricity, radio and acoustic waves, artificial light, heat (soil warming), fire (denshired or burn-baited land) etc. —630*43	.842	Nitrate fertilizers. Saltpetres (potassium and sodium nitrates) etc.
589	Cultivation in artificial media. Hydroponics. Sand cultures. Plastoponics (soil improvement with plastics)	.847	Vegetable nitrogen fertilizers. Bacterial and mycorrhizal inoculation of soil
631 6	RURAL ENGINEERING —626.8; 627 5; 628.1; 630*237; 630*38	.85	Phosphate fertilizers
.61	Clearing and exploitation of particular terrains. Former cultivated land. Virgin land. Reclamation of forest, swamp, desert, stony ground etc. Dune fixation. Terracing of slopes. Poldering —626.87; 627.53	.853	Basic slag. Thomas slag —669.184.28
.62	Drainage —626.86; 627.532; 628.2; 631 432; 632.123	.854	Guano (bird and bat droppings). Fish guano (fish meal) —664.957

631.855	Superphosphate	632.116	Precipitation and condensation
	—631.89	.1	Rain
.86	Organic manures in general. Fertilizers of biological origin	.2	Snow. Avalanches
.862	Farmyard manure. Animal dung. Stable muck (including sullage, liquid manure)	.3	Hail
.863	Human excrement, sewage	.4	Fog. Mist
	—626.841; 628.36/.38; 631.879.2	.5	Dew
.867	Other fertilizers of animal origin. Fish waste, blood, slaughterhouse offal etc.	.6	Rime. Hoar-frost. Glazed frost
.872	Vegetable detritus. Leaves. Forest litter. Leafmould. Humus. Straw	.117	Wind
.874	Green manuring. Soil-improving crops	.1	Storms. Cyclones
.877	Manuring with oil-seed cakes, e.g. groundnut cake	.2	Constant wind
.878	Peat, lignite, coal as fertilizers	.118	Electrical and radioactive phenomena
	—674.88	.1	Lightning
.879	Other wastes as fertilizers	.2	Electricity. Earth currents Electric fields
.1	Urban refuse, garbage as fertilizer	—550.37	Radioactivity
	—628.47	.3	Unfavourable soil conditions
.2	Sewage as fertilizer	—631.45	Nutrient deficiency. Chlorosis
	—626.841; 628.36; 628.381; 631.863	—632.121 ≈ 546	Injurious or toxic constituents
.3	Industrial wastes as fertilizers	.122	Inorganic injurious substances Toxic minerals
	—628.47; 628.54	.1	632.122.1 ≈ 546
	631.879.3; 663.48 Brewery wastes as fertilizers	.2	Organic injurious substances
.4	Compost	.123	632.122.2 ≈ 547
	—628.473; 628.477.3	.124	Humidity. Soil moisture. Floods. Waterlogging
.89	Compound fertilizers. Mixed manures	—631.432; 631.62	—631.432; 631.62
.893	Purely inorganic fertilizing mixtures	.125	Unfavourable physical soil conditions
.894	Purely organic fertilizing mixtures (mixed manures)	.126	—631.43
.895	Mixtures of organic and inorganic fertilizers	.15	Soil degradation. Erosion Landslides etc.
.92	Geophysical effects of cultivation. Influence of agriculture on climate, soil, watercourses, erosion, landslips etc.	.151	—551.3.053; 631.459
95	Agrarian ecology	.152	Seismic disturbances. Earthquakes, tremors
	<i>Class here only ecological studies from an agricultural point of view</i>	.153	—550.34
	—581.5; 591.5	.154	Atmospheric impurities. Chemical or industrial pollution
.96	Types of plantation. Appraisal of site	.155	—628.395; 628.5
	—630*11; 634.8.047; 635.04	.16	Smoke. Smog. Gases
.961	Plantations in relation to site	.161	Airborne solid particles, dusts. Volcanic ash etc.
.962	Kinds of stand and of woods	.163	Waste waters. Seawater. Irrigation water etc.
	—630*22	.164	Injuries due to plant protection preparations, pesticides etc.
.963	Origin and development of stands etc. Plant migration. Invasion and naturalization of plant species. Virgin land. Wild plants. Natural stands. Deliberate plantations. Artificial stands	.165	—632.95.024
632	PLANT DAMAGE, INJURIES. PLANT DISEASES. PESTS, ORGANISMS INJURIOUS TO PLANTS. PLANT PROTECTION	.166	Injuries due to fertilizers
	—368.5; 576.8; 630*4	.167	Various physiological disorders or complex diseases
Special auxiliary subdivisions		.168	Degeneration
632.03	Determination and assessment of damage	—581.148	Dying back. Withering
.038	Extent of damage	.18	Abortion or failure of crop (washing away of pollen by rain etc.)
	—368.025.76	.2	Lodging or laying of crop (beating down by wind etc.)
.08	Biological techniques. Experimental methods etc.	.21	Premature fall of leaves, flowers, fruits
	632.08 ≈ 57.08	.23	Physiological diseases during storage
Principal divisions		.24	Teratology. Malformations
632.1	Non-parasitic complaints. Plant diseases of complex origin	.25	—581.2
.11	Unfavourable meteorological or climatic conditions. Damage by weather	.26	Other non-parasitic complaints. Mechanical injuries. Fire damage. Bomb and blast damage
	—551.5; 631.931.2	.27	Symptomatology of plants
.111	Extremes of temperature. Cold. Heat	.3	(general questions)
.5	Frost	.21	Galls. Cecidia
.6	Cold. Low temperatures	.23	Tumours. Canker
.7	Freezing of soil	.24	Wilts. Blights
.8	Heat. High temperatures	.25	Rots. Moulds. Mildews. Damping-off
.112	Drought	.26	Leaf spots, discolorations, necrosis
	—58.032; 631.671	.27	Witches' broom (tufted growths)
.115	Light	.3	Bacterial and virus diseases of plants
.1	Excessive light	Special auxiliary subdivisions	—578; 579
.2	Lack of light. Shade	632.3.01/.089	632.3.01/.089 ≈ 57.01/.089
.3	Sun scorch. Sun scald	Principal divisions	632.35
		632.35	Bacterial diseases of plants
			<i>Subdivide alphabetically by name of genus and species of bacterium. — Table (h)</i>
		.38	Virus diseases of plants
			<i>Subdivide alphabetically by name of host plant and/or name of virus. — Table (h)</i>

632.4	Bacterial, algal, fungal diseases of plants. Plant mycoses etc.	632.93 (cont'd)	632.93:631.462 Soil disinfection for disease and pest control
	632.42/.49 $\approx$ 582.22/.29		:631.53.02 Seed treatment for disease and pest control
	<i>and/or subdivide alphabetically by name of genus and species of fungus etc.</i>	.931.1	Cultivation methods for disease and pest control etc.
	<i>— Table I(h)</i>	.2	Action on meteorological or climatic conditions. Modification of weather
Special auxiliary subdivisions			632.931.2 $\approx$ 632.11
632.4.01/.089	632.4.01/.089 $\approx$ 57.01/.089	.4	Destruction of infected plants and of vectors, carriers
Principal division		.934	Chemical methods of disease and pest control
632.5	Injurious plants (i.e. injurious to other plants)		<i>—631.348; 632.982</i>
	<i>For plants injurious to animals — 636.09 (or use 636.09:615.9)</i>	.1	Spraying, dusting, atomizing of pesticides
Special auxiliary subdivisions		.2	Fumigation
632.5.01/.08	632.5.01/.08 $\approx$ 58.01/.08	.935	Physical and mechanical methods of disease and pest control etc.
Principal divisions		.1	Control of temperature (raising, lowering) for disease and pest control
632.51/.53	<i>Subdivide alphabetically by name of genus and species of plant. — Table I(h)</i>	.2	<i>For control of temperature as injurious factor in itself, use 632.931.21 (from 632.111)</i>
.51	Weeds	.2	Use of water for disease and pest control. Hydration. Dehydration. Dipping
.52	Other non-parasitic plants. Scrub. Brush. Intermediate hosts of parasites (plants harbouring pests). Poisonous plants	.3	Use of pressure and vacuum for disease and pest control
.53	Parasitic plants. Epiphytes. Climbing plants	.4	Use of radiations, acoustic waves etc. for disease and pest control
6	Animals injurious to plants (except Insecta)	.7	Mechanical methods of disease and pest control. Physical collection and destruction of pests. Protection of crops with barriers, guards, screens. Packing, wrapping, hermetic storage etc.
	<i>—591.65/.69</i>	.936	Psychological and sensory pest control. Attractants, baits etc. Repellents. Scarecrows. Acoustic methods, noise (bird-scarers etc.)
Special auxiliary subdivisions		.937	<i>—631.348</i>
	632.6.04/.05 $\approx$ 591.04/.05		Natural limitation of plant diseases and pests. Biological control
	632.6.08 $\approx$ 57.08	.1	<i>—591.617/.619; 632.938</i>
Principal divisions		.2	Natural enemies of plant diseases and pests. Organisms inimical to pests. Meteorological and climatic conditions unfavourable to pests
	632.62/.69 $\approx$ 592/599	.3	Natural balance of populations. Fluctuations. Disturbances of natural balance. Protection of natural allies
	<i>and/or subdivide alphabetically by name of genus and species of animal (— Table I(h)), e.g.</i>	.938	Use of natural enemies of pests. Importation, breeding, use of natural occurrence
	632.69 <i>Microtus agrestis</i> The field vole	.939.1	Immunology. Plants resistant to diseases and pests. Immunization of plants
	<i>Microtus agrestis</i> as injurious to plants		Sterilization of insects
	<i>or</i>	.95	<i>—632.935.4</i>
	632.693.234 <i>Muridae</i> (mice, rats, voles etc.) as injurious to plants	Special auxiliary subdivisions	Plant protection preparations. Pesticides
	<i>(from 599.323.4)</i>	632.95 02	Effect of pesticides
	<i>Specify further by A/Z if required</i>	.021	According to stage of development of pest. Ovicides. Larvicides. Adult-pest killers
632.7	Insects injurious to plants	.024	Physiological effect of pesticides. Toxicology of pesticides. Toxicity to pests, other animals, humans. Effect on plants. Phytotoxicity
	<i>—591.65/.69</i>		<i>—632.154</i>
Special auxiliary subdivisions		.025	Mode of action of pesticides
	632.7.04/.05 $\approx$ 591.04/.05	.1	By contact. Contact poisons
	632.7.08 $\approx$ 57.08	.2	By ingestion. Stomach poisons
Principal divisions		.3	By inhalation. Respiratory poisons
	632.71/.79 $\approx$ 595.71/.79	.4	By antagonism
	<i>and/or subdivide alphabetically by name of genus and species of insect (— Table I(h)), e.g.</i>	.5	By synergism
	632.727 Common grasshoppers as injurious to plants	.8	Resistance to pesticides
	<i>(from 595.727)</i>	.026	Preventive and curative treatment
	.752 Plant-lice, aphids, greenfly etc. as injurious to plants	.1	Preventive treatment
	<i>(from 595.752)</i>	.2	Eradicant treatment
	.76 <i>Leptinotarsa decemlineata</i> The Colorado beetle	.3	Curative treatment
	<i>Leptinotarsa decemlineata</i> as injurious to plants	.028	Persistence of pesticides and their effects. Pesticide residues
	<i>or</i>		<i>—631.362.6</i>
	632 768 Plant-eating beetles and weevils as injurious to plants (Colorado, leaf, bark beetles etc.)		
	<i>(from 595.768)</i>		
	<i>Specify further by A/Z if required</i>		
632 8	Other injuries and diseases of plants. Complaints due to unknown causes		
632.9	CONTROL OF PLANT DISEASES AND PESTS		
911	Experimental methods		
.913	Plant protection measures, e.g. legislation. Plant quarantine, e.g. in nurseries		
.92	Invasion and spread of plant diseases and pests		
.93	Methods of control of plant diseases, pests, damage		

632.951	Preparations for destruction of arthropods and molluscs. Insecticides. Acaricides. Molluscicides	633.367 .368	Lupins. <i>Lupinus</i> Groundnut (peanut). <i>Arachis hypogaea</i> (as forage plant)
.952	Anti-fungal preparations. Fungicides	.37	Other forage legumes
.953	Antibacterial and antiviral preparations. Bactericides. Viricides	.39	Other forage plants. Non-leguminous forage plants
.954	Herbicides. Weedkillers	.4	Edible roots and tubers. Root crops —635.1
.955	Preparations for destruction of worms. Vermicides. Nematicides	.41	Beets. Red and yellow beets. <i>Beta vulgaris</i>
.958	Preparations for destruction of vertebrate pests. Reptile, bird, fish, mammal poisons. Rodenticides etc.	.416 .42	Beetroot. Sugar beet. Yellow salad beet Fodder beet (mangelwurzel)
98	Implementation of treatment		Brassica and celeriac roots. Kohlrabi root, swedes, turnips. <i>Brassica</i> . <i>Celeriac</i> . <i>Apium graveolens rapaceum</i>
.981	Kinds of pest-control preparation —62-403/-405; 62-492.2/.3	.43	Carrot. <i>Daucus carota</i> . Turnip-rooted chervil. <i>Chaerophyllum bulbosum</i>
.1	Sprays. Suspensions. Solutions. Emulsions	.44	Parsnip. <i>Pastinaca sativa</i>
.2	Dusts. Powders. Granular preparations	.491	Potato. <i>Solanum tuberosum</i>
.3	Adjuvants. Auxiliary ingredients. Wetting agents. Adhesives. Emulsifiers. Diluents. Bulking agents	.492 .493	Sweet potato. <i>Ipomoea batatas</i> Cassava. Manioc. <i>Manihot utilisima</i>
.4	Synergists	.494	Girasol (Jerusalem artichoke). <i>Helianthus tuberosus</i>
.5	Compatibility		Taro. <i>Colocasia esculenta</i>
.982	Methods of application. Apparatus —631.347/.348; 632.934	.495 .496	Yautia, tannia or coco-yam. <i>Xanthosoma</i>
.1	Sprinkling. Spraying	.498	<i>Coleus rotundifolius</i>
.2	Mist application. Nebulization. Atomization. Aerosols	.5	Textile and fibre plants
.3	Dry spreading. Broadcasting. Dusting, e.g. sulphuring	.51	Cotton and similar fibres 633.51 ≈ 677.2, e.g. 633.511 Cotton. <i>Gossypium</i>
.4	Aerial application —656.7	.52	Flax and similar fibres 633.52 ≈ 677.1, e.g. 633.521 Flax. Line plant. <i>Linum usitatissimum</i> (from 677.11)
.5	Injection. Soil injection. Plant injection		.522 Hemp. <i>Cannabis sativa</i> (from 677.12)
.6	Smoke-generating. Fumigation		.525.1 Ramie. China grass <i>Boehmeria nivea</i> (from 677.151)
.7	Hot-water treatment. Scalding, sterilization		.526.2 Agave fibres. Sisal. Agave <i>sisalana</i> (from 677.162)
.983	Time of application		.528 Fibres from monocotyledon fruits. Coconut fibre. <i>Cocos nucifera</i> .
.1	Treatment at vegetative stage. Summer spraying. Leaf spraying etc.		Loofah. Vegetable sponge. <i>Luffa</i> (from 677.18)
.2	Treatment at dormant stage. Winter spraying		.529.3 Fibres from water plants. Marine fibres. Sea wool. <i>Posidonia australis</i> . Sea grass. <i>Zostera marina</i> (from 677.193)
.3	Treatment at time of sowing or planting		—639.64
633/635	<i>The special auxiliaries -1/-2 from the -1/-9 series described at 63 are not applicable in 633/635</i>		Plants yielding fibres for basketwork, wickerwork, coarse weaving 633.58 ≈ 677.5 (especially 677.54), e.g. 633.584.3 Willows. Osiers. <i>Salix</i> (from 677.543)
633	FIELD CROPS AND THEIR PRODUCTION —Table I(g); 582; 634/635 633"321" Spring varieties "321:324" Alternative varieties "324" Winter varieties		.5 Bamboo. <i>Bambusa</i> . Rattan. <i>Calamus</i>
Special auxiliary subdivisions			Sugar and starch plants —664.1/.2
633-1/-2	Equipment, operations etc. for field crops. Plant damage and diseases 633-1/-2 ≈ 631/632		Sugar cane. <i>Saccharum officinarum</i>
Principal divisions			Sugar beet. <i>Beta vulgaris</i>
633.1	Cereals. Grain crops	.58	Sugar maple. <i>Acer saccharum</i>
.11	Wheats. <i>Triticum</i>		Sugar palm. <i>Arenga saccharifera</i>
.12	Buckwheat. <i>Fagopyrum</i>	.6	Starch plants. Arrowroot. Cassava (manioc). Yam. Others —633.491: 664.27
.13	Oats. <i>Avena sativa</i>		Plants yielding stimulants. Beverage plants —663.9
.14	Ryes. <i>Secale cereale</i>	.61	Tobaccos. <i>Nicotiana</i>
.15	Maizes. Indian corns. <i>Zea mays</i> . Sweet corn —635.67	.63	Teas. <i>Camellia sinensis</i>
.16	Barleys. <i>Hordeum sativum</i>	.64	Coffees. <i>Coffea arabica</i> . Other <i>Coffea</i> species
.17	Millets. <i>Panicum miliaceum</i> . Crab grass etc. <i>Digitaria</i> . Sorghums. <i>Sorghum vulgare</i>	.65	Cacao (cocoa or chocolate tree). <i>Theobroma cacao</i>
.18	Rices. <i>Oryza</i>	.68	Opium poppy. <i>Papaver somniferum</i>
.2	Forage grasses. Meadow and pasture grasses		Kola. <i>Cola acuminata</i>
Special auxiliary subdivision			Maté. <i>Ilex paraguayensis</i>
633.2.03	Kinds of meadow. Grasslands. Pastures —636.083.314; 636.084.22	.7	Chicory. <i>Cichorium intybus</i>
Principal divisions			Hop. <i>Humulus lupulus</i>
633.3	Forage plants except grasses	.71	
.31/.37	Leguminosae. Forage legumes	.72	
.31	Lucernes. <i>Medicago</i>	.73	
.32	Clovers. <i>Trifolium</i>	.74	
.33	Cow peas. <i>Vigna</i>		
.34	Soya (soy bean). <i>Glycine</i>	.75	
.35	Pulses. <i>Vicia</i> . Lentils. Beans. Peas —635.65	.76	
.361	Sainfoin. <i>Onobrychis viciaefolia</i>	.77	
.365	French honeysuckle. <i>Hedysarum coronarium</i>	.78 .791	

633.792	Betel. <i>Piper betle</i>	633.878	Other barks yielding tannin. Casuarinaceae.
.8	Aromatic plants. Condiment plants.		Myricaceae. Salicaceae. Betulaceae.
	Oleaginous plants. Dye plants. Tanning		Ulmaceae. Moraceae. Proteaceae
	plants. Medicinal plants	.879.1	Plants with leaves yielding tannin
.81	Aromatic plants. Plants yielding perfume	.4	Plants with fruits yielding tannin
	—665.52	.6	Tannin woods. Plants yielding wood extract
.811	Perfumed flowers. Roses. Jasmine. Violets	.9	Plants with roots yielding tannin
	etc.	.88	Medicinal plants. Medicinal herbs
.812	Perfumed herbaceous plants, shrubs.		—615.2
	Lavender. Rosemary. Geranium	.881	Plants yielding drugs affecting the heart and
	(pelargonium). Patchouli etc.		circulation. <i>Digitalis</i> (foxglove) etc.
.814	Perfumed woods. Sandalwood. Cedar wood	.882	Plants yielding drugs affecting the respiratory
.815	Perfumed roots. Orris. Vetiver		system. <i>Tussilago</i> (coltsfoot) etc.
.816	Balsam plants. Incense plants (frankincense	.883	Plants yielding drugs affecting the digestive
	etc.)		system. Emetics, e.g. ipecacuanha.
.819	Other perfume plants. Abel musk. Musk		Purgatives, e.g. jalap. Tonics, e.g. quassia.
	mallow. <i>Hibiscus abelmoschus</i>		Others
.82	Aromatic herbs. Condiment plants	.884	Plants yielding substances acting on the
	—635.7; 664.5		glands. Cholagogues, diaphoretics etc.
.821	Vanilla. <i>Vanilla planifolia</i>	.885	Plants yielding antipyretics. <i>Cinchona</i> (as
.822	Mints. <i>Mentha</i>		source of quinine) etc.
.823	Wintergreen. <i>Gaultheria</i>	.886	Plants yielding drugs affecting the urogenital
.824	Bay leaf. <i>Laurus nobilis</i>		system
.825	Ginger. <i>Zinziber officinale</i>	.887	Plants yielding substances acting on the skin.
.826	Turmeric plant. <i>Curcuma longa</i>		Emollients, astringents etc.
.83	Spice plants	.888	Plants yielding drugs affecting the nervous
.831	Allspice (pimento). <i>Pimenta dioica</i>		system. Valerian. <i>Papaver somniferum</i> (opium
.832	Clove. <i>Eugenia aromatica</i> or <i>caryophyllus</i>		poppy). <i>Cannabis sativa</i> (Indian hemp,
.833	Cinnamon. <i>Cinnamomum zeylanicum</i>		hashish). <i>Belladonna</i> (deadly nightshade). <i>Nux</i>
.834	Nutmeg. <i>Myristica fragrans</i>		<i>vomica</i> (as source of strychnine). Others
.84	Pungent condiment (hot spice) plants	.9	Other plants with industrial uses
.841	Pepper. <i>Piper nigrum</i>	.91	Rubber plants
.842	Spanish pepper. Paprika. Pepper from		—678.03
	pimiento. <i>Capsicum annuum</i>	.912	Euphorbiaceae
.843	Cayenne pepper. Chilli pepper. <i>Capsicum</i>		<i>Euhevea</i> or <i>Hevea</i> species
	<i>frutescens</i>	.1/.2	<i>Bisiphonia</i> species
.844	Mustard. <i>Brassica</i>	.3	<i>Micrandra</i> and <i>Commiphora</i> species
.845	Caper. <i>Capparis spinosa</i>	.4	<i>Euphorbia</i> species
.846	Horseradish. <i>Cochlearia armoracia</i>	.5/.6	Ceara and Manicoba rubber. Manihot species
.85	Oleaginous plants. Oil-yielding plants	.7	<i>Sapium</i> species
	633.85 ≈ 665.3, e.g.	.8	Rubber-yielding Apocynaceae.
	633.852.52 Groundnut (peanut). <i>Arachis</i>	.913.1	Rubber-yielding vines. Others
	<i>hypogaea</i> (as oil source)	.2	Rubber-yielding Moraceae. <i>Ficus</i> species
	(from 665.325.2)		(India-rubber plant etc). Species of <i>Castilloa</i> ,
	.73 Olive. <i>Olea europaea</i> (as oil		<i>Morus</i> , others
	source)	.3	Rubber-yielding Compositae. <i>Guayule</i> .
	(from 665.327.3)		Others
	.855.34 Oil palms (various <i>Palmae</i>	.4	Rubber-yielding Asclepiadaceae
	species)	.5	Rubber-yielding Sapotaceae
	(from 665.353.4)	.6	Rubber-yielding Lobeliaceae,
.86	Dye plants. Plants yielding pigments,		Campanulaceae, Loranthaceae,
	dyestuffs		Eucommiaceae
	—547.97; 667.272/.276	.7	Rubber-yielding Papaveraceae, Papayaceae,
.861	Plants yielding yellow dye. Saffron. <i>Crocus</i>		Convolvulaceae, Aroideae, Musaceae
	<i>sativus</i> . Turmeric root. <i>Curcuma longa</i> .	.916	Balata plants. <i>Mimusops balata</i>
	Sumach. <i>Rhus</i> . Fustic. <i>Chlorophora tinctoria</i> .	.917	Guttapercha plants. <i>Palaquium gutta</i>
	Dyer's broom. <i>Genista tinctoria</i> . Others	.93	Gum and resin plants
.862	Plants yielding blue dye. Dyer's woad <i>Isatis</i>	.931	Gum arabic. Arabin-rich saps. Gum acacia.
	<i>tinctoria</i> . Litmus plant. <i>Chrozophora tinctoria</i> .		<i>Acacia arabica</i> . <i>Acacia senegal</i>
	Indigo plant. <i>Indigofera</i> . Others	.932	Cerasin-rich saps. Cherry gum. <i>Prunus</i>
.863	Plants yielding red dye. Madder. <i>Rubia</i>		species
	<i>tinctorum</i> Safflower. <i>Carthamus tinctorius</i> .	.933	Bassorin-rich saps. Tragacanth. <i>Astragalus</i>
	Henna. <i>Lawsonia inermis</i> . Others		<i>gummifer</i>
.864	Plants yielding green dye. Buckthorn.	.934	Saps rich in both cerasin and bassorin
	<i>Rhamnus</i>	.936	Gum of firs and spruces. <i>Abies</i> and <i>Picea</i>
.865	Plants yielding brown dye		species
.87	Tanning plants. Plants yielding tannin	.94	Plants yielding turpentine and rosin. Conifer
	—675.041		resins. Turpentine tree (terebinth). <i>Pistacia</i>
.871	Anacardiaceae. Sumach. <i>Rhus</i> (as tannin		<i>terebinthus</i> . Pines, larches and firs. <i>Pinus</i> ,
	source). Tanner's myrtle. <i>Coriaria</i> . Others		<i>Larix</i> and <i>Abies</i> species
.872	Fagaceae. Oak, chestnut, beech etc.		633.94 ≈ 665.94, e.g.
.873	Plants bearing gall apples. Oak apples. Other		633.944.6 Plants yielding copal. <i>Agathis</i>
	galls		and <i>Copaifera</i> species etc.
.874	Gambier shrub <i>Uncaria gambier</i>	.95	Other sap-yielding plants
.875	Leguminosae. <i>Acacia</i> species. <i>Cassia</i> species.	.954	Catechu plants (e.g. <i>Acacia catechu</i>)
	Others	.956	Camphor tree. <i>Cinnamomum camphora</i>
.876	Mangroves. <i>Rhizophoraceae</i> (true		
	mangroves). Other mangroves	634	HORTICULTURE GENERALLY
.877	Conifers. Fir bark. Hemlock bark. Larches.		—635
	Pines. <i>Phylloclades</i> (e.g. <i>amblic</i>)		

634.863	Vines yielding dark-skinned grapes. Red, purple or black grapes for eating	635.26	Other bulbs and tubers. Leek. Garlic. Shallot. Welsh onion. Chive. <i>Allium</i> . Others
.864	Vines yielding grapes for use dried (as currants or raisins). Seedless grapes (for sultanas) —634.8.078	.3	Plants with edible stalks, leaves or flowers —635.48
.865	Vines yielding grapes for juice extraction (for soft drinks, grape juice)	.31	Asparagus. <i>Aparagus officinalis</i>
635	GARDEN PLANTS. GARDENING —630*27; 634; 712	.32	Flowers and buds as vegetables. Artichoke (globe artichoke). <i>Cynara scolymus</i> . Others
Special auxiliary subdivisions		.34	Cabbage and related plants. <i>Brassica oleracea</i> . Cabbage. Red, white and Savoy cabbage. Kale. Kohlrabi (aerial parts)
635-1/-2	Gardening equipment, operations etc. Plant damage and diseases 635-1/-2 ≈ 631/632, e.g. 635-167 Garden irrigation, watering (from 631.67) —628.173	.35	Cauliflower. <i>Brassica oleracea botrytis</i>
635.03/.078	Also applicable in 634	.36	Brussels sprouts. <i>Brassica oleracea gemmifera</i>
635.03	Young plants (seedlings, saplings etc.) and their care. Nurseries —630*232; 631.23; 631.53.03	.4	Other green vegetables. Leaf vegetables
.037	Nurseries	.41	Spinach. <i>Spinacia oleracea</i>
04	Mature plants and their care. Gardens: site, layout etc. 635.04 ≈ 634.8.04 —631.54; 631.96	.42	Chard. Spinach beet. <i>Beta vulgaris cicla</i>
.05	Types and forms of garden plant	.43	Orach (orache). <i>Atriplex hortensis</i>
.051	Flowering plants (phanerogams) in general	.44	Chinese mustard. <i>Brassica rugosa</i>
.052	Herbaceous plants (non-woody plants) in general	.45	Sorrel. <i>Rumex</i>
.053	Climbing and trailing plants. Creepers	.46	Purslane. <i>Portulaca oleracea</i>
.054	Woody plants (shrubs and trees) in general	.48	Rhubarb. <i>Rheum</i>
.055	Trees (woody plants with trunks)	.49	Other edible leaves. Dandelion. <i>Taraxacum officinale</i> . Fennel. <i>Foeniculum vulgare</i> .
.058	Non-flowering plants (cryptogams). Mosses, ferns etc.	.5	Borage. <i>Borago officinalis</i> . Others
07	Plant yields (whole plants, parts etc.) —631.57	.52	Salad plants. Salad vegetables
.071	Whole plants. Whole-plant yields	.53	Lettuce. <i>Lactuca sativa</i> . Butterhead, cos and crisp lettuce
.072	Stems. Branches. Twigs. Bark etc.	.54	Celery. <i>Apium graveolens dulce</i> and <i>secalinum</i>
.073	Roots. Tubers. Bulbs	.55	Chicory. <i>Cichorium intybus</i>
.074	Leaves. Foliage. Greenery	.56	Endive. <i>Cichorium endiva</i>
.075	Flowers. Buds. Blossoms	.57	Piquant salads. Cresses (e.g. <i>Nasturtium</i> , <i>Cardamine</i> , <i>Tropaeolum</i> genera)
.076	Fruits. Fruit yield	.6	Lamb's lettuce (corn-salad). <i>Valerianella olitoria</i>
.077	Saps. Juices. Other live yields	.61	Edible fruits and seeds. Pulses Especially gourd fruits, 635.61/.63 For most fruits — 634
.078	Dried products	.62	Melons and similar plants. Melon. Cantaloup etc. <i>Cucumis melo</i> . Watermelon. <i>Citrullus vulgaris</i> . Others
Principal divisions		.63	<i>Cucurbita</i> and similar plants. Pumpkin.
635.1/.8	Vegetables. Kitchen gardening —712.27	.64	Squash. Courgette. Vegetable marrow. Others
1	Edible roots. Root vegetables —633.4/.44	.65	Cucumber. <i>Cucumis sativus</i> . Gherkin
11	Beets. Red and yellow beets. <i>Beta vulgaris</i> . Beetroot. Sugar beet. Yellow salad beet.	.661	Tomatoes and similar plants. Tomato.
12	Fodder beet (mangelwurzel)	.652	<i>Lycopersicum esculentum</i> . Aubergine (egg plant). <i>Solanum melongena</i> . Pimiento (sweet pepper). <i>Capsicum annuum</i> . Others —633.842
13	Brassica and celeriac roots. Kohlrabi root, swedes, turnips. <i>Brassica</i> . Celeriac. <i>Apium graveolens rapaceum</i>	654	Pulses. <i>Vicia</i> and others —633.33/.35
14	Carrot. <i>Daucus carota</i> . Turnip-rooted chervil. <i>Chaerophyllum bulbosum</i>	.655	Broad bean. <i>Vicia faba</i>
15	Parsnip <i>Pastinaca sativa</i> Turnip-rooted parsley. <i>Petroselinum crispum</i>	.656	French bean. Green beans. Haricot beans.
16	Radish <i>Raphanus sativus</i>	.657	<i>Phaseolus vulgaris</i>
.21	Various roots Horseradish <i>Cochlearia hispanica</i> Rampion <i>Campanula rapunculus</i> . Skirret (water parsnip) <i>Sium sisarum</i>	.658	<i>Dolichos</i> and other pulses. Other <i>Phaseolus</i> species. Runner bean (scarlet runner). Cow peas (<i>Vigna</i>). Pigeon pea etc.
.22	Wayaka plant (yam bean). <i>Pachyrrhizus erosus</i> Black salsify (viper's grass). <i>Scorzonera hispanica</i> Golden thistle	.67	Soya bean (soy bean). <i>Glycine</i>
.23	<i>Scolymus hispanicus</i> . Salsify (oyster plant). <i>Tragopogon porrifolius</i>	.7	Peas in general. <i>Pisum sativum</i>
.24	Rat-tailed radish. <i>Raphanus caudatus</i>	.71	Chick-pea (gram). <i>Cicer arctinum</i>
.25	Chinese artichoke. <i>Stachys sieboldii</i>		Lentils. <i>Lens esculenta</i>
	Edible tubers and bulbs —633.491/.498		Sweet corn (Maize. Indian corn). <i>Zea mays</i> (especially <i>Zea mays saccharata</i>) Maize for popcorn —633.15
	Potato. <i>Solanum tuberosum</i>		Aromatic herbs. Plants for seasoning —633.8; 664.5
	Sweet potato. <i>Ipomoeas batata</i>		Thyme. <i>Thymus vulgaris</i> . Rosemary.
	Cassava. Manioc. <i>Manihot utilisima</i>		<i>Rosmarinus officinalis</i> . Basil. <i>Ocimum basilicum</i> . Marjoram. Oregano. <i>Origanum vulgare</i> . Sweet marjoram. <i>Origanum majorana</i> . Saffron. <i>Crocus sativus</i> .
	Girasol (Jerusalem artichoke). <i>Helianthus tuberosus</i>	.72	Artemisias. Wormwood (absinthe). <i>Artemisia absinthium</i> . Southernwood (Old man). <i>Artemisia abrotanum</i> —635.74
	Onion. <i>Allium cepa</i>		Mints. <i>Mentha</i>

- 635.74 Other seasoning plants. Tarragon. *Artemisia dracunculus*. Sage. *Salvia officinalis*. Others. Savory. Hyssop. Woodruff
- .75 Aromatic seeds. Coriander seed. *Coriandrum sativum*. Cumin. *Cuminum cyminum*. Caraway seed. *Carum carvi*. Aniseed. *Pimpinella anisum*. Fennel seed. *Foeniculum vulgare*. Dill seed. *Anethum graveolens*. Others
- .78 Garnishing herbs. Parsley. *Petroselinum crispum*. Chervil. *Anthriscus cerefolium*
- .8 Edible fungi
- .82 Mushrooms. *Agaricus campestris*. Gill fungi in general
- .83 Edible boleti. *Boletus edulis* and similar species. Pore fungi in general
- .84 Morels. *Morchella*
- .85 Truffles. *Tuber*
- 635.9 **Ornamentals. Decorative plants.**
- Ornamental gardening**
- .91 Ornamentals for indoor use. Indoor pot plants. Conservatory plants. Cut or picked flowers
—745.9
- .92 Ornamentals grown and used outdoors. Outdoor pot or tub plants. Box (e.g. window-box) plants. Garden and other ornamentals
- 636 **ANIMAL HUSBANDRY AND BREEDING IN GENERAL. LIVESTOCK REARING. BREEDING OF DOMESTIC ANIMALS**
- Special auxiliary subdivisions**
- 636 01 Origin, evolution and domestication of animals kept by humans. Taming of animals. Biological bases of rearing and training
- .02 Animals kept for breeding, showing and scientific uses
- .022 Pedigree breeding stock. Show stock.
- .025 Evaluation, judging of pure-bred animals
- .025 Animals bred or kept for permanent exhibition or display (e.g. in zoos, aquariums, terrariums)
—791.8
- .028 Animals bred or kept for scientific research, observation, experiments
—57.082
- .03 Animals bred or kept for food or other produce (productivity, yield). Farm and ranch animals in general
- .033 Animals kept for slaughtering, for meat and fat. Meat animals. Fatstock. Meat and fat yields
- .034 Animals kept for live yield of food produce. Dairy and egg-laying stock. Milk and egg yields
- .035 Animals kept for live yield of wool, textile hairs etc. Wool or hair yield, composition and quality
- .036 Animals kept for other products (e.g. industrial raw materials)
- 04 Animals bred or kept for work and service or pleasure of humans
- 042 Work animals in general. Draught animals. Pack animals, sumpters. Beasts of burden. Passenger-carrying, riding animals
—636.13/.15
- .043 Service animals for patrol, liaison and control duty (police and military mounts etc.)
- .044 Rescue, guide and guard animals for protection of persons and property (e.g. guide dogs; guard dogs or watchdogs)
- .045 Pets generally. Animals kept for companionship or decoration. Household animals, mascots etc. (e.g. peafowl; pet dogs, lapdogs; pet cats)
- .046 Hunting and sporting animals. Racing animals. Fighting animals. Riding animals (for sport)
For transport — 636.042
- .047 Performing animals. Circus and stage animals
- 636.049 Animals bred or kept for ceremonial and other uses (e.g. ritual, sacred animals)
- .05 Animals according to breeding, age, sex etc.
- .051 Pure-bred animals. Thoroughbreds in general
—636.082.25; 636.12
- .052 Cross-bred animals. Cross-breeds. Mongrels. Hybrids
—636.082.26
- .053 Young animals (regardless of sex). Foals, calves, lambs, chicks, puppies, kittens etc.
- .054 Whole male animals. Stallions, bulls, rams, boars, cocks, bucks etc.
- .055 Whole female animals. Mares, cows, ewes, sows, hens, does, bitches etc.
- .056 Doctored, sterilized animals (castrated or spayed). Geldings, bullocks etc.
- .06 Characteristics, constitution and special biological features of domestic animals (size, temperament, organic changes etc.)
- .08 General questions of breeding and rearing
also applicable in 638
- .081 Various procedures. Acquisition and marking of animals
- .1 Acquisition of animals. Selection. Purchase. Capture
—639.1.081
- .2 Marking of animals. Marks of ownership. Tagging. Branding etc.
- .082 Breeding of animals. Practical breeding. Genetic aspects
—575; 591.15/.16
- .1 General questions. Role of external conditions, environment, in breed development
- .2 Choice of stock for selective breeding
—575.827
- .21 Genealogical records, stud books etc. Stock registers. Pedigrees
- .22 Improvement of quality of livestock
- .23 Selection: mass, individual, lineal
- .24 Choice of mating pairs
- .25 Rearing of pure breeds. Line breeding
- Inbreeding
—591.38, 636 051
- .26 Cross-breeding. Outbreeding. Hybridization
—591.37; 636.052
- .3 Structure of herds and flocks. Rotation, replacement pattern
—591.55; 636.05
- .4 Breeding methods and techniques. Reproduction
- .41 Consanguineous breeding
- .45 Oestrus. Season, heat, rut
—591.545
- .453 Mating. Coupling. Service. Artificial insemination
- .454 Fertilization. Impregnation. Fertility. Sterility
- .455 Gestation
—591.366
- .46 Egg-laying. Laying period
- .47 Incubation, brooding, sitting. Hatching of chicks
- 474 Artificial incubation. Incubators. Artificial hatcheries
- .083 Care of animals in general
- .1 Management and maintenance of buildings for rearing livestock. Litter. Comfort and welfare of enclosed animals
—631.22
- .3 Particular methods and equipment for care of animals
- .31 Care and rearing methods in general
- .312 Rearing in permanent buildings (in stalls, stables, byres, batteries, cages)
- .313 Rearing in temporary structures, enclosures (in pens, folds, camps)
- .314 Rearing in the open. Pasturing, putting to grass
—636.084.22

636.083.32	Devices for tethering animals. Collars, halters, chains, clasps etc.	636.09	Enemies and pests of domestic animals, and their control. Zootechnical, protective measures
.36	Washing of animals		<i>Optionally, class veterinary science here; or — 619</i>
.38	Exercising, walking etc. of animals		—591.2; 614.9
.4	Care of hooves, horns, coats. Shoeing. Dehorning. Clipping of coat etc.		
	—682.1	.092.1	Humans as injurious to domestic animals. Cruelty to animals. Theft of animals. Poaching etc.
.5	Guarding and supervision of animals on pastures. Shepherding etc.		—179.3; 343.58; 343.77
.6	Protection of animals from the weather (heat, cold, wind, rain etc.) and ground conditions	.2	Stray or prowling domestic animals as injurious to other domestic animals (e.g. cats as enemies of birds, poultry)
.7	Harness		Wild animals, carnivores, predators as injurious to domestic animals
	—685.1	.3	Insects as injurious to domestic animals (prevention and control)
.8	Muzzles. Collars. Reins. Leashes		
.084	Feeding of animals	.093	
.1	Feeding of young animals. Suckling. Weaning		Principal divisions
.13	Artificial milk-feeding (bottle-feeding etc.)	636.1	Domestic equines. Horses
.21	Feeding in stables, stalls etc.	.11	Oriental horses. Arab, Turkmen, Persian, Tartar, Berber horses
.22	Feeding at pasture. Grazing. Pasturing	.12	Trotting and racing horses
	—636.083.314		—636.051
.3	Provision of water. Watering of animals	.122	Thoroughbreds
	—626.81; 628.176	.128	Standardbreds (American trotters). Morgan horse
4	Various questions of feeding and nutrition generally	.13	Saddle horses. Riding, hunting, cavalry horses. Hunters
.41	Quantity of food. Rations		636.13.046:798.252 Polo ponies (i.e. polo horses)
.42	Feeding methods. Choice of feedstuff, dry, moist etc. Feeding times and frequency	.14	Carriage horses. Coach horses
.5	Special feeding	.15	Draught horses. Cart horses. Dray horses
.51	Feeding in mating season, at gestation, lactation, egg-laying	.152	British draught horses. Clydesdales, Shires, Suffolk punches etc.
.52	Feeding for production. Fattening. Feeding for yield of milk, eggs, wool etc.	.153	German and Dutch draught horses
.55	Feeding for maintenance	.154	French and Belgian draught horses
.7	Feeding and watering devices	.158	American draught horses
.74	Devices for distributing feed. Mangers.	.16	Ponies
	Feeding troughs, hoppers etc.	.162	British ponies. Shetland and Galloway ponies.
.75	Watering devices. Drinking troughs, (self-regulating) cisterns etc.		Exmoor, Dartmoor and New Forest ponies
.76	Combined feeding and watering devices	.168	Welsh ponies
.085	Feedstuffs, fodder in general	18	American ponies
.1	Composition of feedstuffs		Other equines. Asses, donkeys. Mules.
.2	Nutritive value of feedstuffs. Assimilability. Taste, flavour. Calorific value. Digestibility. Starch equivalent	.2	Hinnies. Zebras etc.
.3	Analysis of feedstuffs (general questions)	.22	Large ruminants. Cattle, oxen
.4	Value, inventory and storage of feedstuffs	.222	636.2.053 Young oxen. Calves
	Determination of volume and weight of feedstuffs		British cattle breeds
5	Individual kinds of feedstuff		English beef breeds. Beef shorthorns.
.51	Green fodder in general		Durham, Teeswater, Lincoln cattle Red Shorthorns. Hereford, Polled Hereford and Sussex cattle
	—636.086	.223	Scottish, Welsh and Irish beef breeds.
.52	Silage		Aberdeen Angus, Galloway and Highland cattle. Welsh Black cattle
.54	Concentrated feedstuffs in general	.224	English dairy breeds. Channel Islands cattle
	—636.086/.087		Jersey, Guernsey, Alderney cattle
55	Compound feedstuffs	225	Scottish and Irish dairy breeds. Ayrshire, Dunlop, Cunningham and Kerry cattle
57	Artificial, synthetic feedstuffs	.23	German, Dutch, Danish and Swiss cattle breeds
.6	Preparation of fodder for consumption. Cooking arrangements, fodder kitchens	.234	German dairy breeds. Holstein, Friesian, Oldenburg cattle etc.
	—631.363, 643.396	.235	Dutch and Danish cattle breeds
7	Preservation and storage of feedstuffs	.237	Swiss cattle breeds
	—631.563 and references there	24	French and Belgian cattle breeds
8	Experimental feeding	.242	French beef breeds
.086	Specific vegetable feedstuffs	.244	French dairy breeds
	—636.085 51; 664.78	.245	Belgian and Flemish cattle breeds
	636.086.1/.4 $\approx$ 633.1/ 4	.27	Other European cattle breeds
.087	Industrial by-products as feedstuffs	.28	Non-European cattle breeds
	Feedstuffs of animal origin. Additives	.282	American beef breeds. Texas Longhorns
2	Industrial by-products as feedstuffs (e.g. from starch-works, breweries, distilleries. Draft, malt, yeast etc.)	.283	American dairy breeds. American Holderness and French Canadian cattle
	—631.879.3; 663.14	.29	Other large ruminants
.6	Feedstuffs of animal origin (Milk, meat, fish products. Bone meal etc.)	.291	Zebus
.7	Additives. Stimulants. Feeding supplements (salt, lime, vitamins, proteins etc.)	.292	Bison family. American buffalo (<i>Bison bison</i>). Cattalo (hybrid of bison bull and ox cow). European bison (wisent)
.8	Antibiotic feeds. Biological preparations. Hormones		Others. Wild oxen. Buffalo (<i>Bubalus bubalis</i>). Yak. Gaval. Musk ox. Antelope
.088	Training, domestication (taming) and adaptation of animals for particular purposes	.293	

636.294	Deer. Reindeer	636.93	Fur animals
.295	Camels. Dromedaries		—636.035; 637.62; 639 11, e.g. 639.112
.296	Other Camelidae. Llama	.931	Marsupials kept for fur
.3	Small ruminants. Sheep. Goats	.1	American opossum (possum)
.32/.38	Sheep	.932	Rodents kept for fur
.32	British sheep breeds	.2	Beaver
.321	British longwool sheep	.3	Coypu. Nutria
.323	British shortwool sheep	.4	Chinchillidae. Chinchillas. Vizcachas
.325	British mountain sheep		(viscachas), woolly mice
.331	Dutch sheep breeds	.933	Ungulates kept for fur. Karakul sheep
.333	German sheep breeds	.934	Predators, carnivores, kept for fur
.34	French and Flemish sheep breeds	.2	Foxes. Vulpines
.346	Pyrenean sheep breeds	.3	Raccoon dog
.35	Italian sheep breeds	.4	Raccoon
.36	Spanish sheep breeds. Merinos etc. Other European merinos	.5	Mustelidae. Martens. Sable. Polecat (fitchew). Mink. Skunk
.37	Other European sheep breeds		—636.96
.38	636.37(48) Scandinavian sheep breeds	.95	Various land and amphibious animals kept mainly for food
.39	Non-European sheep breeds		(Examples: molluscs, edible snail, amphibia, edible frog)
.4	636.38(5) Asiatic sheep breeds		Details by :592/599
.42	Goats	.96	Various small land mammals
.43	Pigs. Swine		except those at 636.91/.93, and primates (see next)
.44	English pig breeds	.97	(Examples: hedgehog, ferret, mongoose) Details by :599 ..
.45	German, Dutch and Hungarian pig breeds		Various larger land mammals
.46	French and Swiss pig breeds		except those at 636 1/.8
.47	Italian pig breeds. Neapolitan and Tuscan pigs		Elephant. Primates. Others
.48	Spanish and Portuguese pig breeds		636.97:599.8 Primates kept by humans.
.5	Other European pig breeds		Domesticated apes and monkeys
.52/.58	Non-European pig breeds. American pig breeds. Others	.98	Reptiles and other vertebrates
.52	Poultry		except those at 636 1/.97
.53	Domestic fowl. Chickens		Reptilia, e.g. lizards, snakes, tortoises.
.54	British chicken breeds		Amphibia (inedible; cf. 636 95). Fish, e.g. goldfish (cf. 639.34)
.55	German, Austrian and Dutch chicken breeds		Details by :597/598
.56	French and Belgian chicken breeds	.99	Other animals kept by humans, e.g.
.58	Italian chicken breeds. Mediterranean chicken breeds		Invertebrates
.588	Spanish chicken breeds		except those mentioned above
.592	Non-European chicken breeds. American and Asiatic chickens. Special breeds of chicken.		636 99:595.142 Chaetopoda. Various worms etc
.593	Bantams		:595.143 Hirudinea. Leeches
.594	Other chicken breeds. Fighting cocks. Fancy breeds		—639.54
.595	Turkeys	637	DAIRY PRODUCE. MEAT. OTHER ANIMAL PRODUCE
.596	Guinea fowl		—664.9; 665.2
.597	Pheasants		Special auxiliary subdivisions
.598	Peafowl	637.02	Processing machines and equipment for animal produce. Strainers. Separators.
.2	Pigeons and doves		Cleaners. Pasteurizers. Sterilizers.
.4	Ducks	.03	Homogenizers. Concentrating and drying equipment. Shaping, cutting, grading devices.
.598	English duck breeds. Aylesbury duck. Others		Moulds. Equipment for aftertreatment etc.
.3	French duck breeds	.04	Methods and procedures for treatment of animal produce
.4	Geese	.044	Further subdivided under 637 5
.7	German goose breeds. Emden geese	.045	Chemical composition and ingredients of animal produce
.8	French goose breeds. Toulouse geese	.046	Fat content
.6	Sebastopol geese	.047	Carbohydrate content (e.g. lactose)
.61	Non-European goose breeds		Protein content
.68	Birds (except poultry and game) bred or kept by humans		Content in mineral salts (e.g. calcium)
.7	—598.3/.9		Content in biochemical substances
.72	Birds bred or kept for plumage		637.047:577.15 Enzyme content
.74	Ornamental and song birds. Cage and aviary birds in general		:577.16 Vitamin content
.75	—631.22	.05	Qualities and properties of animal produce (except composition). Food value.
.76	Dogs	.06	Appearance. Colour. Texture. Flavour, taste.
.77	Working dogs	.07	Small. Other properties
.78	or use 636.7.042		Faults, defects, contamination, adulteration of animal produce
.79	Guard dogs. Watchdogs. Sheepdogs. Police dogs		Examination, testing, analysis of animal produce
.80	or use 636.7.044		Class here methods of examination etc.
.81	Hunting dogs. Hounds		For testing of particular properties —
.82	or use 636.7.046		637.047.06
.83	Pet dogs. Lapdogs		
.84	or use 636.7.045		
.85	Cats		
.86	Other animals kept by humans		
.87	Guinea-pigs (cavies)		
.88	Domestic rabbits		
.89	—639.112		

637'6	Produce of livestock, bred or kept animals	637.233.1	Initial treatment. Standardizing and separating of cream or milk —637.131
	637'6 ≈ 636, e.g.		
	637.12'639 Goat's milk (from 637.12 and 636.39)	.6	Temperature treatment and preservation of cream or milk. Pasteurization, sterilization, cooling —637.133
	637.5'62 Beef (i.e. ox meat) and beef products (from 637.5 and 636.2)	.234	Butter formation. Butter working, shaping et
'7	Produce of game and hunted animals	.2	Butter churning
	637'7 ≈ 639.1, e.g.	.3	Butter washing
	637.54'724 Meat from partridge, grouse etc. (from 637.54 and 639.124)	.5	Working and salting of butter
	637.55'712 Meat of small furred animals. Rabbit and hare meat (from 637.55 and 639.112)	.7	Shaping, moulding and cutting of butter
	637.61'711.7 Hides of large predators (from 637.61 and 639.111.7)	.236	Ripening of butter. Butter cultures
		.238.2	Colouring of butter —667.777
'8	Produce of fish and other aquatic animals	.4	Additives for aroma, flavour etc.
	—639.38	.24	By-products of buttermaking
	637'8 ≈ 639.2, e.g.	.247	Buttermilk
	637.5'845 Whalemeat (from 637.5 and 639.245)	.25	Types and forms of butter
	637.56'87 Flesh of aquatic molluscs, oysters (from 637.56 and 639.27)	.251	Fresh butter (not stored or processed)
		.252	Cold-stored, freezer-stored butter
		.253	Stable forms of butter, e.g. for tropical climates
		.255	Semi-fluid butters, e.g. ghee
		.28	Butter substitutes. Butter oil —664.3
Principal divisions			
637.1	Dairying and dairy produce in general	.3	Cheese and cheesemaking
.11	Milking. Milking equipment	.33	Cheesemaking processes
.114	Milking by hand	.333	Cream or milk treatment for cheesemaking.
.115	Milking by machine. Mechanical milk handling systems		Initial treatment. Temperature treatment and preservation. Skimming. Pasteurization etc.
.12	Milk (fresh, unprocessed milk)	.334.2	Renneting, coagulation and setting
.13	Milk processing	.3	Curd and its treatment Cutting, scalding, cooking of curd. Pitching and piling of curd
.131	Initial treatment and improvement of milk for processing. Purification. Straining, filtering. Skimming. Vitaminizing etc.	.5	Cheddaring
133	Temperature treatment and preservation of milk	.7	Cheese milling, grinding, sorting
1	Cooling and freezing of milk	.336	Cheese moulding, hooping, pressing.
2	Preheating and heating of milk	.338.2	Bandaging of cheese
3	Pasteurization		Cheese ripening, maturing
4	Sterilization of milk	.4	Colouring of cheese —667.777
7	Chemical preservation of milk. Other preservation methods	.34	Additives of aroma, flavouring etc.
134	Treatment of milk to alter physical condition. Homogenization	.344	By-products of cheesemaking
.137	Condensing and drying of milk	.345	Whey, as cheese by-product —637.142
.14	Processed milks	.35	Milk sugar (lactose)
141	Processed whole milk	.352	Types and forms of cheese
.3	Pasteurized milk. Sterilized milk	.353	Fresh soft cheeses. Cream cheese
.4	Homogenized milk	.5	Blue and white mould cheeses (soft and semi-soft)
142	Concentrated milks. Condensed milk, cream, whey. Evaporated milk. Other concentrated milk products —637.148; 637.344	.7	Blue mould cheeses. Gorgonzola. Stilton. Roquefort etc.
.143	Dried milk. Milk powder. Reconstituted milk	.354	White mould cheeses. Brie. Camembert etc
144	Dietary milks Special milks for infants and children	.6	Hard cheeses
146	Cultured, fermented and sour milk products —663.1	.62	Scalded cheeses
1	Bacterial and yeast treatment of milk in general Its products	.64	Slightly acidified cheeses. Cheeses ripened with rod bacteria. Emmental. Gruyere etc.
2	Milk products from combined acid and alcohol fermentation. Kefir Others	.8	Strongly acidified cheeses. Parmesan etc.
3	Milk products from acid fermentation	.2	Cheeses from low-temperature cooking.
147	Yoghurt. Skyr. Others	.4	Salted cheeses
	Skim milk —637.144; 637.247	.82	Open-texture cheeses. Gouda, Edam etc.
148	Cream. Cream products —637.187; 663.674	.84	Close-texture cheeses. Cheddar etc
18	Milk and cream substitutes	.356	Acid-casein cheeses
.181	Vegetable milk	.2	Acid-casein cheeses eaten fresh. Cottage cheese. Gervais, Quark etc.
.182	Milk from animal fats	.4	Ripened acid-casein cheeses. Harzer, Mainzer etc.
.187	Cream from skim milk with added fat. Synthetic cream	.357	Acid-albumin cheeses. Schabziger, Gammelost etc.
.2	Butter and buttermaking	.358	Processed cheese
.23	Buttermaking processes	.4	Eggs. Egg products
.233	Cream or milk treatment for buttermaking		637.4'6/'7 Eggs of specific birds etc (especially other than doves fowl or chicken)
		.41	'659.7.7 Domestic duck eggs (from 636.597)
		.413	'727 Wild waterfowl eggs (from 639.127)
			Structure and parts of eggs
			Egg-white. Albumen

637.414	Egg yolk	637 523	Sausages. Sausage production
43	Treatment of eggs	3	Sausage-making machinery and processes
.433	Temperature treatment and preservation of eggs in the shell. Cooling, heating, pasteurizing, sterilizing of eggs	.31	Devices for mixing and kneading meats and pastes
.434	Chemical and physicochemical methods of preserving eggs in the shell. Preserving in liquids, e.g. water-glass, isinglass. Preserving in gases	.35	Salting tubs
48	Processed and synthetic egg products. Egg substitutes	.37	Boilers. Steamers. Cooking ovens
481	Dried egg. Egg powder	.38	Drying chambers. Smoking chambers
.483	Synthetic egg-white	.4	Cutting and chopping devices for sausage-making
.484	Synthetic yolk	.7	—637.513.4
.5	Meat. Flesh products for food	.525	Production of complete sausages, puddings etc. Sausage skins, natural (gut) and artificial
Special auxiliary subdivisions		528	Filling machines
637 5 03	Methods of treatment of meat and flesh		Cured, diced and smoked meats (except sausages)
.031	Preparatory treatment. Cleaning etc. of meat		Prepared and cooked meats other than those mentioned above. Brawn. Pickled meats.
.032	Ageing of meat, e.g. by enzymes	.53	Jellied meats etc.
.033	Preservation and storage of meat in general		Disposal and utilization of carcasses.
.034	Smoke curing. Smoking and drying of meat	.54	Knackery
.035	Chemical curing. Salting, pickling etc. of meat		—637.513 13
.037	Refrigeration, freezing of meat		Meat of poultry and game birds
	—637.513.8		637.54'65 Meat of domestic birds, poultry ('65 from 636 5)
039	Special treatment for consumption. Tenderizing etc.		'72 Meat of game birds ('72 from 639.12)
637.5'6/'8	Meat and meat products from specific animals		See also example under 637'7
	As instructed at 637'6, '7 and '8, e.g.		For direct divisions,
	637.5'62 Beef (i.e. ox meat) and beef products. Veal and veal products	.55	637.54 ≈ 637.51
	'64 Pork (i.e. pig meat) and pork products		Venison. Game meat (except birds)
	('64 from 636.4)		637.55'71 Meat of specific game animals
	'848 Marine turtle meat and its products		'711.4 Meat of wild reindeer etc ('711.4 from 639.111.4)
	('848 from 639.248)	.56	See also example under 637'7.
Principal divisions			For direct divisions,
637.51	Fresh meat. Meat substitutes		637.55 ≈ 637.51
.513	Slaughterhouses. Slaughterhouse methods and equipment		Flesh of fish, crustaceans (shellfish) etc.
.12	Public slaughterhouses. Abattoirs		637.56'81/'83 Flesh of specific fishes ('81/'83 from 639.21/.23)
.13	Knackers' yards		'87/'88 Flesh of aquatic molluscs and crustaceans ('87/'88 from 639.27/.28)
	—637.53		See also example under 637'8
.2	Slaughterhouse equipment, appliances		For direct divisions,
22	Killing and stunning devices. Humane bolt killer. Slaughter pistols, cartridges. Killing masks. Electric stunning and killing	.6	637.56 ≈ 637.51
.27	Slaughterhouse tools. Knives, saws, splitting and skinning devices etc.		Animal products other than food
.3	Devices for disembowelling, eviscerating. Scraping and shaving tools. Scalding devices. Boilers, autoclaves etc.	.61	—665.93; 675
4	Cutting and chopping devices. Meat-cutting and slicing machines. Bacon slicers. Chopping and mincing mills		637.6'6/'8 Products of specific animals (if not implicit in direct divisions .61/.69)
	—621.927.76; 637.523.4		—637'6/'8 and examples under 637.61
5	Weighing machines for meat		Skins. Pelts. Hides. Shells
.66	Containers for fresh meat		—639.386
8	Refrigerating installations. Freezers. Cold stores	.62	637.61'698 Skins etc. of reptiles and some other vertebrates ('698 from 636.98)
	—637.5.037	.63	'848 'Tortoiseshell' (i.e. shell of marine turtles) ('848 from 639.248)
.514	Types of fresh meat. Joints and cuts of meat		—675.86; 679.92
	For meat of specific animals — 637.5'6/'8	.64	Hair. Bristles. Wool
.1	Boiling meat. Brisket. Ribs. Neck, scrag. Belly. Trotters. Hams, leg. Head	.65	—636.93; 675 153; 675.82/ 83; 677.3
2	Roasting meat. Leg. Shoulder. Cutlets. Neck. Roasting joint. Brisket. Chops. Rolled meat. Fillet. Loin. Hock (knuckle) etc.	.66 1	Feathers. Down. Bird skins
.4	Stewing meat	.663	—675.84; 677.39
.5	Minced meat	.68	Horns. Claws. Talons. Beaks
.7	Bones for cooking	.691	—675.86
.8	Marrow		Bones. Teeth. Tusks. Ivory
.9	Offal		Animal blood
.518	Meat substitutes	638	—631.867
.52	Processed, cured, prepared and cooked meats. Their production	Special auxiliary subdivisions	Animal intestine. Gut
	—664.91/.93	638.08	—675.85; 677.39
.522	Selection and preparation of raw meat for processing		Civet. Musk. Castor (castoreum)
		Principal divisions	—665.529.4
			Edible birds' nests. Swallows' nests
			KEEPING, BREEDING AND MANAGEMENT OF INSECTS AND OTHER ARTHROPODS
			Special auxiliary subdivisions
			General questions of breeding and rearing
			638.08 ≈ 636.08

- 638.1 BEE-KEEPING. APICULTURE
- .11 **Establishment of apiary. Preliminary considerations. Site. Acquisition of bees, hives, equipment. Apiary buildings. Business management**
- .12 **The honeybee (*Apis mellifera*). Classification, anatomy, physiology, psychology, behaviour and scientific study in general**
*Denote details not listed below by :591...
 For other Apis species — 595.799*
- .121.1 Queen bees
- .2 Worker bees
- .3 Drones
- .123 Subspecies, varieties, races of *Apis mellifera*
- .124 The bee colony as a whole, as an organism. Social behaviour of honeybees. The hive-mind, corporate personality. Spirit of the beehive
 —591.552; 591.56
- .2 The seasonal cycle. Natural growth, development, multiplication, decline and death of bee colonies
- .3 Communication between bees by dances and other means. Social behaviour in foraging
- .4 Reception, treatment, storage and use of food and other materials by bees. Reserves. Economy of the hive. Nectar, honeydew, saccharine foods, honey. Wax secretion and comb-building. Water, pollen, propolis etc.
- .5 The home or hive. Selection, cleaning, modification etc. by bees. Temperature and humidity control, ventilation (fanning) by bees. Guarding, defence by bees
 —591.57; 638.142.8; 638.147.7
- .6 Relations between bee colonies. Colony consciousness. Robbing, fighting by bees
 —638.147.1
- .7 Division of labour in the bee colony
- .8 Properties, qualities of colonies. Colony balance, queenrightness. Queenlessness. Degree of docility. Honey-getting capacity, morale
- 13 **Foraging by bees. Bee-forage. Bee-pasture**
 —638.121.2
- 132 Nectar. Nectar-yielding plants
 —581.135.4/.5
 638.132(213.5) Tropical nectar plants
 (497.2) Bulgarian nectar plants
- .135 Propolis. Propolis-yielding plants
- .138 Pollen. Pollen-yielding plants
- .14 **Apiary and colony management. Hive-work and manipulation. Hives and their parts. Breeding and rearing of bees**
- 141 Apiary management in general
- .141.3 Apiary tools and equipment
 —638.11; 638.163
- .4 Kinds of apiary and their management. Home apiaries. Out-apiaries. Migratory apiaries and beehouses
- .7 Colony management. Systems employing two or more queens per hive. Compound hives
- 142 Hives and their parts
- .2 Fixed-comb hives and skeps
- .3 Movable-comb hives
*Denote named designs of frame by A/Z,
 e.g. BS (British Standard, to BS 1300),
 Modified Dadant, Zander*
- .8 Ventilation devices. Hive entrances. Take-off platforms for bees
 —638.147.7
- .143 Cleaning and preserving of hives and their parts. Sterilizing. Painting etc.
- .144 Feeding of bees. Foods
- .145 Rearing and breeding of bees, including queens. Introduction of queen bees
Class human actions here. For actions of bees — 638.124
- .3 Selection of bee colonies. Building up and improving strains of bees
- 638.145.4 Rearing of bees. Stimulation and building up of colonies. Rearing of workers and drones
- .5 Rearing of queen bees. Mating arrangements
- .7 Artificial insemination of queen bees
- .147 Collection, packaging and dispatch of bees
- .1 Other manipulations
- .1 Control of robbing and drifting by bees
 —638.124.6
- .2 Basic manipulations. Opening the hive. Subduing the bees. Removing bees from combs. Uniting colonies with each other and with combless bees. Others
- .26 Taking and hiving of swarms. Hiving of combless bees
- .27 Finding, marking, removal and destruction of queen bees. Finding, selection, destruction or transference of queen cells
- .5 Artificially increasing the colony
- .7 Artificial modification of ventilation, temperature and humidity in the hive
 —638.124.5; 638.142.8
- .15 **Diseases of bees. Pests, enemies of bees. Injuries to bees**
- Special auxiliary subdivisions**
- 638.15-02/-099 General pathology of bees
 638.15-02/-099 ≈ 616-02/-099
- Principal divisions**
- 638.153 Diseases affecting adult bees
- .154 Diseases affecting the brood, bees in immature phases
- .158 Injuries and poisoning of bees (other than by harmful animals and plants). Injuries by flood, fire, extreme temperatures, damp, starvation, asphyxiation etc.
- .2 Poisoning by sprays, dusts, fumes etc.
- .16 **Honey**
 —663.393; 664.164
- .162 Composition, properties and quality of honey
 638.162:532.13 Viscosity of honey
 :543.92 Organoleptic testing of honey. Aroma and flavour of honey
 :577.1 Biochemistry of honey
 :615.28 Antiseptic properties of honey
- .163 Extraction and treatment of honey. Clarification, liquefaction, preservation, bottling of honey. Packing and transport
- .165 Forms and varieties of honey
- .22 Comb honey. Section honey. Chunk honey
- .23 Extracted, strained or pressed honey
- .8 Honey according to forage plant furnishing most of the nectar
 638.165.8 ≈ 582, e.g.
 638.165.847.52 Honey from nectar of Abietoideae, fir trees
 (from 582.475.2)
 .891.248 Honey from nectar of Ericoideae, heaths and heathers
 (from 582.912.48)
- .166 Alterations and defects in honey. Altered or deficient honey
- .167 Use of honey in foods, beverages, medicaments, other products
 638.167:615.324 Use of honey in pharmacy
 :664.14 Use of honey in sugar confectionery, sweets
- .17 **Beeswax and other honeybee products**
- .171 Beeswax. Composition, properties, processing, uses etc.
 —665.231
- .178.2 Pollen. Pollen pellets. Pollen-trapping
 —581.33
- .8 Bee venom
 —591.145; 615.814.5
- .19 **Honeybees as pollinating agents. Use of bees by humans for pollination**
 —581.162.3

638.2	SILKWORM CULTIVATION. SERICULTURE.	639.1.055.2	In relation to time. Seasonal restrictions
	SILK FARMING		Open and close seasons
	—677.37	.3	In relation to place. Conservation areas, wildlife sanctuaries etc.
.22	Silkworms. Life-cycle of the silkworm.	.4	In relation to means of pursuit and capture
	Varieties of silkworm moth		Prohibited hunting methods
.221	Life-cycle of the silkworm	.5	Riding animals and vehicles for hunts
	—591	.8	Sick and wounded game animals Tracking of wounded animals
.2	Egg stage	.057	Persons involved in hunting. Owners of chases, hunting reserves. Masters of hunts. Hunt supervisors. Auxiliary personnel, beaters etc.
.4	Larval stage (the silkworm)	.058	Damage associated with hunting, and compensation. Damage caused by hunts
.6	Pupa. Chrysalis		Damage caused by game
.8	Adult stage. Moth	.081	Hunting methods and procedures. Capture and destruction of animals
.222	Cultivated varieties of silkworm moth (Bombycidae subfamily). <i>Bombyx mori</i> .	.1	Trapping. Traps and snares
	Others	.11	Nets, particularly fishing nets
.224	Wild, semicultivated varieties of silkworm moth (mainly Saturniinae). Silkworms producing tasar (tusser), muga and shantung silks. <i>Antheraea</i> species. <i>Attacus</i> species.	.12	Dry-land nets. Drop nets. Bird nets
	Others	.13	Snares. Springes. Nooses. Lariats, lassoes. Bolas
.226	Processional varieties (mainly Thaumetopoeinae subfamily). <i>Anaphe</i> species. <i>Euchelra</i> species	.15	Lime-twigs
.228	Other families and subfamilies of silk-spinning moths of commercial importance. Yponomeuta subfamily. Pieridinae subfamily. Other groups	.17	Spring traps. Gins. Fall traps Pitfalls
.23	Nutrition of silkworms. Food plants, e.g. mulberry leaves	.19	Other methods of capture or destruction.
	—638.244		Electric traps. Laying poison. Bats, lures
.24	Sericulture proper. Silk farms. Nursery management. Rearing rooms and equipment	.2	—639.1.081.98
.242	Incubation. Hatching. Separation of newly hatched larvae	.21	Hunting with weapons. Shooting etc
.243	Hygiene, disinfection, cleaning in silk farms	.22	Hunting in battue. Driving, beating, rounding up. Hunting with shewels
.244	Feeding of silkworms (Feeding programmes. Maintaining freshness etc.)	.23	Still-hunting. Stalking
	—638.23	.24	Hunting from ambush, from hides. Hunting in migration season
.247	Rising of silkworms. Spinning process	.25	Stationary hunting with lures, decoys, stool-pigeons etc.
.25	Diseases of silkworms. Pests, enemies of silkworms. Injuries to silkworms. Infections. Harmful plants. Harmful insects and other animals. Poisoning etc.	.3	—639.1.081.98
.27	Cocoons, for silk industry	.31	Hunting with lights, mirrors etc.
	—675.153	.32	Hunting with auxiliary animals Hunting with hounds etc.
.272	Bave and brin (single thread of raw silk). Physical and chemical properties of raw silk. Constituents (fibroin, sericin etc.)	.5	Hunting with weapons and animals
.6	Defects of bave. Evenness	.6	Hunting without weapons. Coursing. Hawking (falconry) etc.
.273	Collection, preservation and storage of silk	.7	Hunting in open country
.28	Various products of the silk farm. Waste silk. Silkworm gut. Other wastes	.8	Hunting in forests
		.98	Hunting in marshes and on water
638.3	COCHINEAL INSECTS (<i>DACTYLOPIUS COCCUS</i>)	.09	Hunting on horseback. Riding to hounds
	—547.975; 667.271	.091	Means of luring game. False bird calls, whistles. Decoy animals. Bait etc.
638.4	REARING OF OTHER INSECTS. ANTS. GLOW-WORMS. PERFORMING FLEAS. CRICKETS. INSECTS INJURIOUS TO PESTS	.092	—639.1.081.19; 639.1.081.24
638.5	REARING OF ARACHNIDS	.093	Diseases of game. Pests, enemies of game
.52	Cheese mites (<i>Tyroglyphus siro</i>)		Diseases and their treatment. Epizootics
.54	Spiders (<i>Araneida</i>)		—591.2
	—677.375		Pests, enemies of game. Humans as injurious to game. Theft of game. Poaching etc.
639	HUNTING. FISHING. FISH BREEDING		Domestic animals gone wild. Feral cats, dogs etc. Wild animals, carnivores, predators as injurious to game
	—343.77; 347.246; 347.26; 351.765; 799		Insects as injurious to game
639.1	HUNTING	Principal divisions	
Special auxiliary subdivisions		639.11	Quadrupeds as game
639.1.02	Various kinds of game	.111	—639.13
.021	Furred game		Large wild animals. Big game generally
.022	Feathered game. Game birds		—636.29
.03	Formation of game stock. Game breeds and breeding	.1	Deer. Wild pig (wild boar). Elk (moose)
.04	Rearing and care of game	.2	Chamois. Izard. Ibex. Moufflon (wild sheep)
	639.1.04 ≈ 636.083	.4	Reindeer. Eland. Wapiti
.05	General questions of hunting	.5	Antelope. Gazelle
.055	Restrictions on hunting	.6	Wild and domesticated bovines (cattle, oxen). Bison. Buffalo. Yak. Others
		.7	Large carnivores, predators. Large felines (Lion. Tiger. Leopard etc.). Hyena. Jackal. Coyote. Wolf. Bear. Others
		.8	Elephant. Hippopotamus. Rhinoceros. Giraffe. Okapi. Wild equines. Zebra
		.112	Small furred mammals. Small game generally. Rabbit. Hare. Beaver. Others
			—636.92/.93

64 HOUSEKEEPING. HOME ECONOMICS. DOMESTIC SCIENCE

<i>Here is classed information about the household and objects associated with it; also housekeeping procedures and domestic work on a commercial scale (e.g. catering, cleaning, laundering)</i>		64.033	Shopping technique. Value for money. Bargains. Bargain hunting, e.g. at sales
Special auxiliary subdivisions		.04	Services, by household or outside staff
64-1/-9	Characteristics of domestic machines, equipment etc.	.041	Services by household staff. Inside service. Own service
	<i>Details from 62-1/-9, e.g.</i>	.042	Services by outside staff in general
	64-182 According to mobility, interchangeability, convertibility.	.045	Daily delivery of foods, e.g. bread, milk, of newspapers etc.
	Fixed. Stationary. Mobile.	.05	Housekeeping, dwelling arrangements etc. for particular classes of person
	Collapsible. Interchangeable	.06	64.05 ≈ -05 (Table I(k))
	.1 Fixed. Built-in. Integral parts of building or structure	.08	Household appliances and machines.
	.3 Mobile. Movable. Transportable		Labour-saving devices in the home
	.7 With adjustable, movable parts. Convertible. Adaptable		Moving house. Removals
		Principal divisions	
64.01	General principles of housekeeping. Organization. Economy. Waste. Luxury.	641/642	FOOD. COOKING. DISHES. MEALS
	Domestic work in general		—612.39; 613.2; 614.31; 63; 663/664
.011	Rationalization in the household	641	FOOD. COOKING. DISHES
.012	Planning, organization etc.	.1	Foodstuffs from the point of view of properties. Nutritional value
.014	Domestic structure. Working hierarchy	.12	Proteins. Nitrogenous foodstuffs. Meat, eggs, nuts, vegetables etc.
	64.014 ≈ 65.014		612.398; 613.262
.015	Mechanization	.13	Carbohydrates. Cereals. Fruits. Sugars
.018	Consultancy and advice on housekeeping procedures. Help, training and advice in establishing administrative systems.	.14	—612.396; 613.263
	Inspection of establishments	.16	Fats
.02	Various kinds of household management		—612.397; 613.268; 613.288
.021	Private households	.17	Water
.022	Housekeeping in businesses, firms, other large establishments. Running of canteens and other services	.18	—612.392.3; 613.31
8	Housekeeping in hospitals, sanatoriums		Salts. Mineral constituents, ashes
.024	Organization of work in hotel-keeping and catering	.3	—612.392.6; 613.27
	—331.835; 379.831; 656.262; 728.5		Vitamins. Growth-promoting substances. Spices. Condiments. Stimulants
.1	Hotels. Inns. Hostels. Public houses (i.e. hotels with liquor licences; cf 64.024.4)	.4	—612.015.6; 612.393; 613.291/.292
2	Boarding houses. Guest houses. Residential hotels. Rented apartments. Furnished houses and rooms	.42/.44	Foodstuffs according to source or season
.3	Restaurants. Cafes. Lunch rooms. Buffets. Cafeterias etc. (mainly for consuming food).	.45	641.3:613.26 Vegetable foodstuffs
.4	Stalls, stands, kiosks for vending food	.48	641.3"324" Winter foodstuffs
	Refreshment rooms (mainly for consuming drinks). Tea rooms. Coffee houses. Milk bars. Bars for alcoholic drinks. Wine bars. Public houses (UK, as drinking establishments; cf 64.024.1) Soft drinks stalls, stands, kiosks.	.5	Preservation of foodstuffs in the home
	Sale of ice and ice confectionery. Ice cream vending	51/.54	—664.8/.9
5	Centralized catering. Delivery of prepared food to households	.51	Preparation and preservation processes
6	Clubs	512	641.42/ 44 ≈ 664.8.02/.04
.026	Cooperative housekeeping, e.g. in large dwellings	513	Improvement, preservation and aftertreatment of beverages
.027	Housekeeping in cottages, chalets. Holiday camps	514	641.45 ≈ 663.05
.028	Housekeeping in camp, on journeys, on tour. Temporary households		Home-made preserves, conserves
.03	Household expenditure, commodities and purchases. Consumer needs, research and advice generally. Shopping, ordering, bills etc.	.516	Preparation of foodstuffs and meals.
	—658.7		Cookery
	64.03:646 Shopping for and purchasing clothes	.517	641:642.14 Cooking of midday meal
.031	Household budgets, accounts etc.	.518	Cooking of foodstuffs
	64.031:657 Bookkeeping aspects		—641.55/.56
.032	Consumer needs, research and advice generally. Quality and costs of household goods. Comparison of prices etc.	.52	Preparatory treatment of foodstuffs
		.521	641.51.06 Food-preparing equipment
			—641.544
			Cutting. Slicing. Chopping. Mincing. Shredding. Comminution
			—621.927.7; 621.937; 621.968
			Washing. Scrubbing
			—621.928.4
			Scraping. Scouring. Shelling. Peeling. Stoning. Coring. Straining. Sieving. Colandering. Mixing. Blending. Beating. Whipping
			—621.928.2; 621.929; 631.361 7/.8
			Opening of containers. Removal of closures, lids, corks etc. Can-opening. Bottle-opening
			—672.466; 683.564
			Measurement and weighing of foodstuffs
			Preparatory treatment with various accessories. Boning. Plucking. Shaping. Pricking. Others
			Cooking processes using heat or cold.
			Heating. Cooling
			Heating of food in general
			—641.53/.54

641 522	Heating in fat. Baking in fat, roasting, frying etc.	641.55/.56	Preparation of meals, courses, dishes —613.21; 641.51/.54
.523	Moist heating. Stewing, braising etc.	.55	Preparation of meals in general
.524	Wet heating. Heating in liquids. Boiling, poaching, scalding etc.	.56	641.55(083.12) Recipes. Cookery books
.525	Steaming. Cooking in steam		Preparation of individual dishes. Special dishes. Dietary foods
.526	Dry heating. Heating in hot air. Baking. Dry roasting. Toasting, grilling etc.	.561	—615.874
.527	Warming (e.g. of drinks, of prepared foods)		Diets for healthy persons. Weight-reducing, slimming diets
.528	Cooling. Leaving to stand. Chilling. Freezing (for consumption)	.562	—613.24
53	Cooking with various heating appliances (and the appliances themselves). Kitchen firing equipment. Kitchen ranges, stoves, cookers —683.9	.563	Children's, infants', babies' diets and dishes
		.564	—613.22
.532	Cooking with equipment using solid fuel	.565	Diets and dishes for the sick, invalids
.533	Cooking with equipment using liquid fuel. Oil and spirit stoves etc.		Vegetarian dishes
.534	Cooking with gas-fired equipment	.566	—613.261
.535	Cooking with electric equipment —621.365	.568	Dishes conforming to religious and other prescriptions. Dishes for particular faiths, cults etc.
.536	Cooking with equipment using mixed, combined heat sources (e.g. gas-electric cookers)	.8	Dishes for particular festivals, feast days
.538	Cooking with steam and hot-water equipment (e.g. steam generators)	.81	National dishes, specialities etc.
.539	Cooking with other heating equipment.	.82	<i>Details by (4/9)</i>
	Cooking with solar energy, infra-red, high-frequency devices (microwave cookers) etc.	.83	Preparation of main and side dishes.
.54	Kitchen equipment, utensils. Cooking vessels. Kitchen accessories	.84	Dressing of prepared dishes. Condiments
.542	Cooking vessels and similar equipment —621.642.1	.85	Main dishes
.1	Water boilers. Kettles	.87	Appetizers, entrées, hors d'oeuvres. Side dishes. Soups
.2	Pots. Pans. Saucepans. Infusers. Teapots. Coffee percolators. Others	.88	Salads. Compotes. Foods eaten raw, uncooked
.3	Pressure cookers. Autoclaves		Bread with dressing or filling. Sandwiches
.4	Steamers. Tiered steamers. Potato and vegetable steamers		Bread and butter, spread etc.
.5	Water-bath cooking vessels (double boilers, bains-marie). Sand-bath cooking vessels	642	Desserts. Sweets, puddings etc.
.6	Hot-air cabinets	.1	—664.686
.7	Frying pans. Baking pans	.12	Beverages, drinks. Table water. Beer. Wine.
.8	Thawing apparatus. Warming apparatus —641.546.2	.14	Coffee. Tea. Others
.544	Accessories for preparing foodstuffs —641.51	.16	—613.3; 663
.2	Small accessories. Kitchen cutlery, knives, spoons etc. Sieves. Strainers. Colanders. Chopping boards	.17	Garnishings. Condiments. Salt. Vinegar.
.3	Baking, frying and roasting accessories	.2	Sweeteners, sugar etc. Spices. Pepper.
.5	Devices for handling, cleaning etc. of fish, meat, poultry	.3	Mustard. Pickles. Sauces. Gravies
.6	Shaping devices, e.g. butter formers	.4	—613.291; 633.82; 635.7; 664 5
.7	Supports, stands in general. Mats. Lids. Covers. Handling devices for vessels (grips, handles, tongs etc.)	.46	
.8	Equipment for cleaning foodstuffs. Buckets, bowls, basins. Containers for use in sinks	.5	MEALS AND MEALTIMES. TABLEWARE
.546	Equipment for keeping food hot, cold or fresh	.51	—392.8
.2	Equipment for keeping food hot. Heated compartments. Hotplates. Insulated containers (e.g. vacuum flasks). Others	.52	Main meals. Normal mealtimes
.3	Equipment for keeping food cold. Porous containers, covers etc. (e.g. butter coolers, milk coolers). Cooling with ice, chemicals, other means	.53	Morning meal. Breakfast
.4	Cooling and freezing equipment. Refrigerators. Freezers (deep freezers) —621.56	.54	Midday meal. Lunch or dinner
.5	Devices, containers, racks etc. for long-term fresh keeping of food. Covers for sliced ends. Bread bins. Storage jars and boxes. Egg racks. Guards against insects	.57	Evening meal. Dinner
.548	Transport and distribution of food. Conveying and serving arrangements. Food conveyors, stands, trolleys (including heated trolleys). Food vehicles. Food hoists —621.86/.87; 643.64	.61	Late evening or bedtime meal. Supper
		.63	Light meals. Snacks
		.7	642.2"344/345" Light meals or snacks at particular times of day
		.72	"3447" Afternoon light meal.
		.721	Afternoon tea etc.
			Meals on excursions or journeys. Packed lunches, picnics etc.
			Meals on festive occasions. Feasts, banquets —394.1
			Cocktails. Cocktail parties
			Meal arrangements for larger numbers of persons, for parties of tourists and other groups. Self-service meals etc.
			Fixed price meal. Table d'hôte
			American plan. Full day's meals at fixed price. Full board (pension)
			European plan. Menu with fixed prices for various dishes. À la carte
			Club system. Choice of combinations of courses for fixed price
			Meals where guests serve themselves with various dishes. Buffet, cafeteria, self-service systems
			Setting or laying of table
			Serving, waiting at table. Carving at table
			Tableware. Table cover, accessories. Table decoration
			—645.484
			Tableware. Vessels for food. Crockery. China, glassware etc.
			—666.11/.28; 666.5
			Sets, services of tableware

642.727	Individual pieces of tableware. Plates, bowls, dishes. Cups and saucers. Glasses. Tureens, jugs etc.	643.8	Underground areas. Basements. Cellars —624.1
.73	Cutlery. Table accessories. Eating implements. Knives, forks, spoons etc. Serving implements. Condiment containers, cruets. Other accessories —672.713	.82 .85 .88	Cellars for heating installations. Cellars for fuel. Coal cellars. Cellars with built-in oil tanks —697
.78	Table decoration. Flowers, vases, table ornaments. Table lighting. Centre-pieces	.9	Storage cellars. Wine cellars Protection areas in cellars. Shelters in cellars —355.58; 699.852
643/645	THE HOME. HOUSEHOLD FITTINGS AND FURNISHINGS	644	Storage spaces. Attics. Lofts. Box-rooms. Drying lofts
643	THE HOME. THE DWELLING —351.778.5; 72.05; 728	.1	INSTALLATIONS FOR HEALTH AND COMFORT IN DWELLINGS
.1	Site. Location in relation to traffic. Proximity of churches, schools, shopping areas. Proximity to services, water, gas, electricity	.11	Indoor climate control. Heating. Ventilation. Air conditioning —628.8; 697
.3	Kitchens	.12	Type of heating <i>Details by :697.1/.8</i>
.31	Position of kitchen in the dwelling. Lighting factors	.19	Combustion appliances for room-heating and kitchens. Domestic fires and firing —683.9
.35	Kitchens in private households	.3	Small domestic heating appliances. Bed-warming appliances. Footwarmers. Heated fabrics, rugs, blankets. Linen warmers, airers. Others
.36	Large kitchens, e.g. in restaurants, hospitals	.6	Domestic lighting —621.32; 628.9; 683.8
.37	Rooms ancillary to kitchens. Larders. Pantries —643.47	.61	Domestic water supply and sanitary installations —628.1/.3; 628.6 (and references at those numbers)
.392	Combined cooking and living areas. Kitchen-parlours	.62	Drinking water supply —628.1; 696.11
.394	Sculleries. Washing-up rooms	.65	Domestic hot water supply
.396	Fodder kitchens. Kitchens for animal food —636.085.6	.68	Drainage
.398	Kitchenettes. Kitchen alcoves. Recesses for cooking	645	Hygienic and sanitary installations and fittings <i>Details by :696.14</i> —645.68
.4	Dining rooms and ancillary areas	.1	HOUSEHOLD FURNITURE AND FITTINGS 645-182.1 Fixed, built-in, fitted furniture etc.
.41	Eating areas. Dining rooms. Breakfast rooms. Banqueting halls etc.	.13	Floor coverings, fixings etc. —675.61; 69.025.3
.42	Drinking areas. Bars, drinking saloons etc.	.15	645.1-03 According to material <i>Details from Table I(k)</i>
.47	Food storage rooms —643.37	.16	Floor coverings. Carpets. Mats. Rugs. One-piece, fitted floor coverings. Floor coverings in pieces, tiles. Runners. Doormats etc.
.5	Sleeping, washing and living areas	.2	Underlays. Underfelts
.51	Sleeping areas. Bedrooms. Bed-sitting rooms	.23	Fixings and fastenings for floor coverings
.52	Washing areas. Bathrooms. Washrooms. Shower rooms. Saunas. Lavatories. Changing and dressing rooms	.26	Wall coverings and their fittings —684.75
.53	Living and reception areas. Living rooms. Drawing rooms. Sitting rooms. Parlours	.3	Wall coverings. Wall hangings. Wall drapes, arrases, tapestries, carpets etc.
.54	Children's, guests' and staff areas. Nurseries, schoolrooms etc. Guest rooms. Servants' quarters	.312	Fastenings and fittings for wall coverings
.55	Areas for particular activities	.313	Door and window furnishings and fittings —683.3
.552	Studies. Writing rooms	.315	Curtains. Window drapes. Heavy curtains. Mesh curtains
.553	Reading rooms. Libraries (library rooms)	.316	Roller blinds
.554	Housework areas. Sewing, needlework rooms. Laundries, washing rooms. Ironing rooms	.33	Venetian blinds
.555	Work and hobby areas. Workshops	.34	Awnings
.556	Woodwork, carpentry rooms etc.	.35	Curtain rails, rods and fittings. Brackets, curtain rings, hooks, rollers etc.
.557	Games rooms, e.g. for billiards, table tennis	.36	Fastening and guiding of curtain cords and roller-blind belts. Clips and tensioners.
.558	Areas for artistic activities. Artists' studios	.37	Adjusting, braking and locking devices
.56	Large areas for sport, dancing etc. Indoor courts, dance halls etc.		Drawing devices for curtains, hangings, blinds. Pulls, winders etc. for opening, closing, raising, lowering
.57	Entrance, access and connecting areas in dwellings. Halls, passages etc.		Safety devices. Window bars, grilles etc. to prevent falling out
.58	Open spaces in dwellings. Sheltered sitting areas. Patios, terraces etc. Ancillary structures. Open structures (verandahs, balconies etc.). Closed structures (sun lounges, conservatories etc.)		Devices for opening and closing of doors and windows. Door openers and closers. Door lifters
.6	Spaces in annexes, outbuildings. Areas in sheds, garages etc. Separate washhouses, laundries etc.		
.62	Permanent, built-in communication and conveying systems		
.64	Communication systems. Telephones. Speaking tubes. Door knockers, bells etc. —654.9; 69.029		
	Conveying systems. Lifts. Hoists. Serving hatches. Chutes etc. —621.86/.87; 641.548; 69.026		

645.38	Protective devices against damage, soiling etc. Door stops, buffers Kick plates, finger plates etc.	646 62	Cleaning without washing. Beating, brushing, vacuum cleaning
.39	Other door and window fittings. Accessories for flowers etc. as window furniture. Draught excluders. Weather strips. Insulation (double glazing etc.) Insect screens, nets etc.	.63	Chemical cleaning (dry cleaning)
	Protection against intruders, break-ins, burglaries. Wartime protective devices (armouring, gas seals, blackout equipment)	.65	—648.28
	—355.585 and references there	.67	Cleaning of footwear. Shoe cleaning. Shoe polishing and polishes
4	Furniture and accessories	.68	—665.921
	—672.94; 674.23; 684		Protection, preservation of clothing, especially furs. Dust and moth excluders (dust covers, bags etc.). Chemical protection (moth repellents etc.)
	645.4-182.1 Fixed, built-in, fitted furniture	7	Devices for hanging, stretching and pressing of clothing Clothes hangers, stretchers, presses. Shoe trees
.41	Seating. Chairs. Stools. Benches. Sofas		Body care. Beauty care Accessories for dressing and undressing
	Settees. Other seats		—687.5
.42	Furniture for lying down, reclining. Beds	71	Body care and cleanliness in general
	Divans. Cots. Hammocks. Other sleeping furniture. Accessories		Bathing, showering etc
.43	Tables in general. Dining tables. Leaf and gateleg tables. Side tables. Occasional tables	.72	—613.4; 644.68; 645 68
.44	Working tables. Desks. Writing tables.	.73	Care of the hair and beard
	Lecterns. Kitchen tables. Work benches	.74	—672.714/.718
	Others	.75	Care of the teeth
.45	Cupboards. Wardrobes. Shelves. Bookcases	.78	Care of the nails
	Cabinets. Chests of drawers Trunks. Other storage furniture		Care of the skin
.46	Accessories for furniture. Rolling and sliding devices. Castors. Closures. Protective and ornamental plates etc.	647	Accessories for dressing and undressing
.47	Bolsters. Pillows. Cushions. Mattresses	2	Boot-jacks, shoe-horns etc Button-hooks.
.48	Bed linen. Table linen. Towels etc.	3	Garment holders and removers
	—687.268		DOMESTIC STAFF
.482	Bed covers. Blankets. Quilts. Counterpanes. Bedspreads, eiderdowns etc. Duvets.		Staff working in the house. Household servants and supervisors
	Sleeping bags	648	Staff working outside the house.
	—685.533		Gatekeepers, chauffeurs, gardeners etc.
.483	Bed linen. Sheets Quilt covers. Pillow cases etc.	1	WASHING LAUNDRY CLEANING
.484	Table linen. Table-cloths. Serviettes, napkins	111	<i>Household and industrial processes</i>
	Table coverings, mats etc.	2	—613.4/ 5
.486	Bathroom and kitchen cloths. Towels.	.3	Laundry and laundries in general
	Dishcloths. Drying cloths, tea-towels etc	.4	—643 554, 643.58; 725 194
.49	Other household articles. Picture or photograph frames and stands. Ashtrays.	12	Laundries and launderettes
	Letterboxes. Others	.13	Commercial laundries
.492	Mirrors	.17	Coin-operated laundries Launderettes
	—686.7	.18	Self-service laundries. Public washhouses
.494	Screens and guards. Fireguards		Identification of laundry items Laundry marks. Laundry marking devices
.497	Ladders. Platform steps. Stepladders		Sorting and bundling of laundry
.5	Decorative articles. Ornaments. Pictures, sculptures, vases, clocks etc.	.2	Storage and retrieval of soiled laundry
.6	Complete room furnishings. Suites of furniture	.21	Washing agents. Washing solutions.
	645.6:643.51 Bedroom furniture. Bedroom suites	.22	Substances for other treatments (bleaching, starching etc.)
.63	Kitchen furniture and equipment	224	—661.185/.187; 661.43; 664.2
.68	Furniture and equipment of bathrooms, washrooms, lavatories	23	Soaking. Washing. Chemical cleaning
	—628.6 and references there	234	Soaking. Soaking vats, tubs
646/649	PERSONAL REQUISITES. HOUSEHOLD MANAGEMENT	.235	Washing by hand
		237	Wash boilers. Coppers
646	CLOTHING. BODY CARE	238	Mechanical washing. Washing machines.
	—613.4	.24	Washing plant
.1	Clothing materials (selection, purchase etc.)	.25	Simple washing machines with fixed tub and agitator
.2	Making and mending of clothes at home.	.26	Drum-type, rotary washing machines
	Domestic dressmaking. Sewing, needlework.	.27	Washing plant, installations
	Knitting. Repairs, patching, darning	.28	Multi-purpose washing machines (e.g. washing and spin-drying)
.4	Clothing. Garments. Underwear. Outerwear.	3	Rinsing
	Footwear. Accessories	.32	Starching
	—685.2/.4; 687/687.3		Bleaching
.5	Headgear. Hats etc.	33	Blueing. Optical brightening
	—687.4		Chemical cleaning (dry cleaning)
.6	Care and protection of clothing		—646.63
.61	Cleaning materials. Spot or stain removers	.4	Water extraction. Wringing. Drying
			Wringers (mangles). Spin-driers (centrifugal driers)
			—621.928.3; 648.235
			Drying (by evaporation). Drying devices.
			Clothes lines. Clothes horses. Drying and airing frames. Drying and airing cupboards.
			Drying machines, tumble-driers etc.
			Smoothing. Pressing. Ironing

648.42	Hand pressing. Irons (smoothing irons). Ironing boards, tables	648.538	Safety devices, supports, harnesses etc. to prevent falling —614.821
.43	Machine pressing. Ironing machines. Pressing mangles —677.057.73; 687.054	.54	Cleaning and care of crockery, pots and pans. Washing-up materials
.46	Folding machines	.544	Washing-up, rinsing and drying equipment. Basins. Dish-mops, pot scourers etc.
.47	Collection and storage of finished laundry		Draining racks
.5	Cleaning and care of houses and dwellings <i>especially interiors and house contents</i> —613.5	.545	Washing-up machines (dish washers)
.52	Cleaning of walls, floors, furniture etc.	.55	Cleaning and care of metal objects, cutlery
.523	Polishing equipment and machines. Floor polishers etc.	.56	Cleaning equipment for glass objects and components
.524	Sweeping and brushing equipment. Brooms. Dustpans and brushes. Mops and buckets	.58	Cleaning agents. Other materials for home care. Cleaners, rinses, polishes etc.
.525	Vacuum cleaners	.6	Disinfection. Disinfectants —615.28
.526	Dusting equipment. Dusters. Feather dusters. Dust mops		648.6:645.47 Disinfection of mattresses, pillows etc.
.527	Equipment for cleaning and care of carpets and other coverings. Wet and dry carpet cleaners. Carpet sweepers. Carpet shampoos etc.	.7	:696.13 Disinfection of house drains Pest extermination. Vermin control. Traps (e.g. mousetraps). Poisons. Pesticides. Insecticides etc. —631.348; 632.95; 639.081.1
.528	Beating equipment. Carpet beaters and beating machines. Combined beaters and vacuum cleaners	649	DOMESTIC CARE OF CHILDREN, INVALIDS, GUESTS —173.5; 37, e.g. 37.018.1, 379.82; 392.7; 613, e.g. 613.95
.53	Window cleaning. Cleaning and care of glass panes, mirrors, doors etc. and their frames		Domestic child care. Baby care. Care of infants
.533	Equipment for window cleaning by hand. Window squeegees	.1	Domestic care of the sick, invalids
.536	Window-cleaning machines and devices	.8	Care of guests and visitors, Hospitality
		.9	

65 MANAGEMENT AND ORGANIZATION OF INDUSTRY, TRADE AND COMMUNICATION

	—Table I(d), esp. (044), (083), (085); 001; 06; 33; 35; 64	65.012.5	Implementation. Execution, carrying out of orders
Special auxiliary subdivisions		.51	Duties, obligations and rights of subordinates
	<i>The special auxiliaries -1/-9 listed under 62 are also applicable in 65, except for -9 under 656.833; 65.01/.07 are valid under 651 and 657/659; additionally, .01, .03 and .07 are used in 655. 654 and 656 have separate series of special auxiliaries</i>	.6	Collaboration and cooperation. Exchange, comparison of experiences. Brainstorming
		.61	Internal relations and liaison generally. Staff involvement, solidarity etc. —331.126
65 01	Methods and methodology. Theory and practice of organization	.62	Internal committees —331.152
	—005/007	.63	Discussions. Conferences
.011	General principles. Efficiency. Rationalization. Productivity	.65	Liaison and cooperation with other organizations
	—330.111.4	.66	Comparisons of firms
.1	Business policy. Purpose. Aims. Objectives. Targets	.67	Tours of inspection —65.012.126; 659.153
.2	Evaluation. Establishment of characteristic, average and standard values, figures	.7	Inspection. Examination. Supervision
.4	Productivity. Economic efficiency (cost-effectiveness). Profitability. Rationalization. Simplification. Efficiency. Cost-consciousness. Success	.8	Checking and control —001.893; 658.562
	—331.024.35	.013	Maintenance of secrecy. Protection of confidential information. Security —651.928
.52	Manual work		Psychological questions —331.054
.54	Mechanization		65.013-159.953 Significance, importance of memory in organization
.56	Automation	.014	Organizational structure. Hierarchy
	—681.3; 681.5	1	Organs of the firm. Functions and tasks. Division of labour. Allocation of responsibilities. Specialization. Demarcation. Extension of functions —331.87
.7	Errors. Failures. Defects. Faulty use, misuse. Lack of foresight. Business myopia, short-sightedness		65.014.1(084.2) Schematic representations of staff functions. Organization diagrams, graphs, charts
.8	Improvements. Reforms. Reorganization		Departmentalization. Sectional, departmental structure
	—65.016		Centralization. Decentralization. Coordination
012	Methods		Work study and analysis. Method study —06 049; 331.015.1
.12	Investigations. Observations. Analyses	.12	65.015.007 Work study personnel .07 Work study departments
.122	Investigation of work flow and planning	.13	Method study. Simplification of work
	Operational research. Linear programming	.015	Design and layout of plant, equipment.
	—519.8, e.g. 519.852		Design and adaptation of tools, machines, for humans. Ergonomics
.124	Interviews. Questioning	.12	Design, layout, of workplace
.126	Study trips, tours, visits	.13	Arrangement of work flow. Sequence of operations. Route. Arrangement of materials in workplace
	—65.012.67; 659.153		Work study. Time-and-motion study.
.14	Experiments. Tests. Trials	.14	Quantification of work (rating) 65.015.14BS British Standard rating (as BS 3138)
.16	Expert opinion, appraisal. Consultant's advice		REFA Refa methods (Reichsausschuss Für Arbeitsstudien)
.2	Planning. Programmes. Plans. Aids to planning	.144	Activity sampling. Ratio delay study
.21	Investigation of task. Problem definition	.145	Predetermined motion-time (PMT) systems.
.22	Investigation of given factors, parameters. Collection and interpretation of data		Methods-time measurement (MTM). Work factor etc.
.23	Prediction of development. Business forecasting	2	Standard and allowed time and its determination. Waiting time. Delay. Lost, unproductive, idle time
.25	Presentation, layout of programme	.3	Job evaluation. Job grading. Work assessment
.27	Modification, adaptation of programme to development	6	Aids to work study. Flow charts, function diagrams etc.
.3	Forms of organization. Line of management. Flexibility and rigidity. Overorganization		
	—65.014		
.323	Staff ratios. Proportion of management to workforce (administrative to productive personnel) etc. Span of control		
	—658.3		
.38	Dismantling of chain of command. Retrenchment. Staff reduction. Laying off		
.4	Management. Directorate. Technique and methods of management		
.41	Fixing of hierarchic responsibilities. Relations between supervisors and subordinates		
	—331.15		
.42	Discipline. Orders. Instructions		
	—658.314		
.43	Kind of management. Personal and corporate control (boards of management etc.)		
.45	Internal communications, information		
.46	Official channels. Regulation procedure. Powers, authority. Delegation of authority. Deputizing. Transfer of powers		
.48	Supervision, monitoring of the management		

65.016	Development, evolution of a firm. Foundation, establishment. Growth, expansion, rise. Shrinking, contraction, decline.	651.54	Storage and preservation of records. Shelving, filing methods —022.4; 025.8
	Amalgamation, merger. Division, splitting, decartellization. Change, conversion, reorganization. Dissolution. Closing down, winding up, liquidation —334.751; 347.471.045; 347.72.04; 347.736/.739; 658.168.5	.542	Lying flat, on side. Horizontal storage. Cabinet, box and pigeonhole filing
.017	Size. Scope. Volume of a firm —334.746	.543	Storage in rolled form. Horizontal rolls, on shelves, in drawers. Vertical rolls, in cupboards or racks
.1	Large	.545	Upright storage on shelves (e.g. of books, binders, filing boxes)
.12	Very large. Giant firms	.546	Storage in vertical files and filing cabinets
.2	Medium-sized	.548	Suspended filing. Storage in hanging files
.3	Small	.55	Accessories for files
.32	Miniature	.552	Guide cards and sheets
.018	Descriptions, quality, grade (of business, work, products etc.)	.554	Labels. Tabs. Riders etc.
.2	Exemplary, excellent. Good. Optimal (e.g. break-even point)	.56	Systematic recording of archival information. Permanent files, archives
.3	Average. Moderate	.562	Period of retention, preservation
.4	Of low standard. Bad. Unserviceable. Unsatisfactory	.565	Distinction between permanent and temporary records. Current and closed or dead archives
.02	Terms of business. Agreements. Conditions —339.18; 658.7/.8	.57	Recording of ephemeral information. Temporary records and papers (lists of engagements, memoranda, notes etc.)
.027	Delivery conditions. Guarantees	.572	Retention for specified period
.03	Prices. Tariffs —Table I(d) (085.6/.7); 338.5 65.03 ≈ 658.8.03	.578	Destruction of documents
.06	Working materials, equipment in general —651.2	.58	Loan of documents
.07	Departments. Sections e.g. at 65.015.07, 658.3.07	.7	Correspondence. Written communications. Reports
Principal divisions		.71	Office stationery. Printed forms, blanks —676.23; 676.81/.82; 686.81
651	OFFICE MANAGEMENT. OFFICE PRACTICE. OFFICE WORK —31; 657/658	Special auxiliary subdivisions	
.2	Office equipment. Office machines. Office supplies —686.8 651.2:645.4 Office furniture :681.31 Office computers and calculators :681.6 Office graphic equipment. Typewriters. Duplicating and printing machines :778.1 Office photocopiers	651.71'1	Formats
		'2	Colour 651.71'2 ≈ 535-2
		'3	Quality of paper or board used
		Principal divisions	
651 4/.9	OFFICE DUTIES, ACTIVITIES	651.713	Letterheads. Headed notepaper
.4	Office services	.715	Forms for supply, delivery etc. Order forms, invoices. Other forms associated with supply of goods, accounting etc.
.44	Secretariat	.74	Correspondence style. Correctness, orthography. Punctuation
45	General office services. Internal document circulation (messenger duty). Reception	.75	Business letters. Compilation, layout etc.
457	Counter service (desk-clerk duty) etc.	.76	Notices of meetings. Calling notices
458	Post, mail handling services	.77	Transcripts of committee proceedings.
5	Telephone service. Switchboard duty	.8	Minutes of meetings
	Office records. Arrangement and storage of records. Dossiers. Files and filing —686.83/.84; 930.25		Card indexes. Card filing —686.84; 686.874
51	Records according to form		651.8:658.8 Card indexes of sales records
512	Records in book form Bound volumes	.83	Methods of arrangement
513	Records in loose-leaf and strip form Leaves, sheets Slips Sheaves. Strip or roll (e.g. from recording clocks, adding machines)	.838	Sorting and retrieval
		.2	Manual sorting and retrieval. Insertion and extraction without accessories
53	Arrangement of records. Classification. Putting in order	.4	Mechanical sorting and retrieval. Insertion and extraction with accessories
.531	Principles of arrangement Sorting by subject, place, date, person, department etc.	.6	Visual sorting and retrieval. Optical coincidence cards
533	System of arrangement (filing order) —025.4	.8	Electronic and magnetic sorting and retrieval —681.3
.2	Alphabetic and alphanumeric order (primarily in order of alphabet)	.84	Forms of card index. Flat, visible indexes.
4	Numeric order. Serial numbering	.85	Vertical, hanging, blind indexes
.6	Systems with mixed notation. Combinations of alpha characters and numbers, or words and numbers	.9	Equipment, accessories for card indexes
.538	Sorting and arrangement of data, documents and objects received at the office	.92	Writing. Duplicating. Translating. Stenography
		.921	Business writing, transcription. Duplicating. Translating
		.923	—003
			Handwriting. Manual transcription
			Typewriting
			—681.61
			681.923.07 Typewriting sections. Typing pools
			Shorthand typing. Taking dictation.
			Transcription, typing out
			—651.93; 681.847
			Production of multiple copies. Carbon copies. Duplicating

651 925.4	Reproduction by action of light. Photocopying, diazotype etc.	654 071	General administrative service Staff, engineers, operators etc
	651.925.4:778.1 Photographic details	.072	Administration of public use of communications. Booking, connection, transmission of messages. Supervision, control of use
.926	Translating. Interpreting —06.053.56; 355.343.18; 356.362		Delivery of messages to recipient, addressee
	651.926-051 Translators. Interpreters	073	Administrative arrangements Material and financial resources. Offices, accommodation
.928	Business codes, cryptographies —65.012.8	.077	Furniture Equipment etc. 654.077 ≈ 35.07
93	Shorthand. Stenography —651.923.4	08	Personnel. Officials Staff Service regulations etc. 654 08 ≈ 35 08 For technical staff — 654 071
.932	Systems of abbreviation of ordinary script —801.18		
.933	Mechanical shorthand. Stenotyping —681.613.3		
.934	Shorthand systems according to language 651.934=20 English shorthand =30 German shorthand		
.936	Non-phonetic and partially phonetic shorthand systems		
.937	Phonetic shorthand systems		
654	TELECOMMUNICATION AND TELECONTROL (ORGANIZATION, SERVICES) —338.47; 347.83; 351.817; 355.343.1; 358.236; 621.39, 622.489; 623.61; 656		
Special auxiliary subdivisions			
654-1/-9	Characteristics of telecommunications machinery etc. Details from 62-1/-9 The .01/.07 auxiliaries listed under 65 are not applicable here		
654.01	General public services		
.02	Telecommunications routes, lines		
.021	Number and frequency of communications		
.022	Spatial distribution of communications		
.023	Communications at particular times (e.g. night-time, holidays)		
.024	Communications by particular persons or services. Government communications etc		
.025	Communications to a large number of persons —654.19		
.026	Communications for particular purposes		
.027	Communications according to speed, rapidity		
.028	Communications according to form (language, code, secrecy)		
.029.3	Indication of recipient, addressee (e.g. telephone number, telegraphic address)		
.03	Tariffs. Charges. Rates. Payment		
.031	General principles of tariff. Alterations, increases, reductions in charges		
.032	Tariffs. Scales of charges		
.1	Tariffs according to number, frequency and length of communications		
.2	Tariffs according to place of origin and distance of communications		
.3	Tariffs according to time. Night-time rates, holiday rates etc.		
.4	Tariffs according to category of person. Rates for officials, for the press etc.		
6	Tariffs for particular purposes. Tariffs according to object of communication		
.7	Tariffs according to speed, rapidity of communication (e.g. express rate)		
.8	Tariffs according to form of communication		
.9	Additional charges (e.g. for registration, for prepaid reply)		
.034	Payment. Prepayment meters (slot machines, coin boxes)		
.04	Faults. Interruptions, delays. Complaints. Repairs		
.05	Signals. Call signs. Warning tones etc. —654.9 and references there		
.06	Auxiliary services using telecommunications (e.g. time check) —621.395.9; 621.396.9		
.07	Administration. Management —65.01		
			Principal divisions
		654 1	Telegraphy. Telephony. Radio. Television
		.14	Line telegraphy (cable, wire services) —621.394
		.141	Telegraph offices
		.142	Telegraphy by private line
		.143	Telegraphy by public line 654.143 ≈ 654.153
		.144	Manual and automatic telegraph traffic 654.144 ≈ 654.154
		.145	Communication by teleprinter Telex service —654.916; 681.613.4
		.147	Special-purpose telegraphy for alarm and warning systems (e.g. telegraphy for police, fire services) —614.842 4; 654.9
		.15	Line telephony —621.395
		.151	Telephone exchanges. Telephone stations
		.2	Telephone exchanges
		4	Telephone stations. Call boxes
		.152	Private telephony Internal telephone services (within a building or group of buildings)
		.153	Public telephony
		2	Local telephone traffic
		.3	Interlocal telephone traffic (calls between different exchanges). Trunk calls
		.4	Long-distance telephone traffic International calls
		.154	Manual and automatic telephone traffic
		.2	Manual telephone traffic
		.3	Semi-automatic telephone traffic
		.4	Automatic telephone traffic
		.157	Emergency call services
		.16	Radiocommunication —621.396; 654.19
		.164	Radiotelegraphy (wireless telegraphy) 654.164 ≈ 654.14
		.165	Radiotelephony (wireless telephony) 654.165 ≈ 654.15
		.17	Facsimile and television transmission (point to point) —621.397, 654.197
		19	Broadcasting —621.396/.397
		.191	Broadcasting stations, studios —621.396.71; 621.397.7
		.195	Sound broadcasting. Radio Radio relay (rediffusion) —621.396.44; 621.396.97
		197	Facsimile and television broadcasting —621.397; 654.17
		.9	Signalling. Various telecommunication services. Remote control (telecontrol) —62-519; 629.066; 621.398; 654.05; 627.71/.72; 656.05; 628.975; 656.25 629.1.018
		.91	Optical, visual signalling
		912	Methods of producing optical effects. Signalling with colours, shapes, flags, smoke, light sources, rockets etc. —627.724; 662.12
		913	Signalling using written or printed characters

654.915	Optical indicating and alarm devices. Indicator boards etc.	655.225.3	Quality and properties of relief plates etc. Depth of relief. Shape and size of image elements (e.g. dots). Tonal rendering etc.
.916	Remote writing equipment —654.145; 681.613.5	.8	Production of relief surfaces according to method of representation (e.g. by line, by half-tone dot, autotype)
.92	Acoustic signalling. Bell systems. Alarm systems	.226	Production of flat, planographic printing surfaces. Lithography. Photolithography
.922	Methods of sound production. Signal whistles, sirens, horns, hooters. Signal bells. Explosions, detonations. Speech sounds. Talking machines, indicators. Others	.1	Earlier planographic processes. Manual lithography. Transfer processes
.923	Bell systems. Chimes etc.	.2	Mechanical, photographic, electric, electronic and other processes for transferring the image on to planographic plate or cylinder.
.924	Alarm systems and installations		Photolithography
.3	Electric intruder and burglar alarm systems —62-759.8	.5	Quality and properties of planographic plates etc. Shape of image elements. Tonal rendering
.5	Automatic fire alarm systems	.227	Production of diagraphic printing surfaces. Screen and stencil production
.925	Awakening devices. Alarms set for a predetermined time. Time signals (e.g. in schools, factories, offices) —681.11.033.2	.228	Production of collographic and similar printing surfaces. Collotype. Aquatone
.93	Remote transmission of commands, messages, signals. Remote indication	655.24/.28	Production of type matter, letterpress
94	Remote indication of particular phenomena, e.g. temperature —681.12	.24	Type styles. Characters —003; 681.615.2
655	GRAPHIC INDUSTRIES. PRINTING. PUBLISHING. BOOK TRADE —0; 681.6; 76; 774/777	.241	Type body size
		.242	Type weight. Light, medium, bold face etc.
		.243	Typographic measuring systems. Point system etc.
Special auxiliary subdivisions		.244	Typefaces. Antiqua (Old Style). Sanserif. Blackletter etc.
	<i>The special auxiliaries .01, .03 and .07 listed under 65 are applicable in 655; the others are not</i>	.245	Special characters. Logotypes, ligatures etc.
		.246	Type sorts other than letter forms. Signs, rules, braces, dashes etc. Fleurons and other ornaments
Principal divisions		.247	Type specimen books and sheets
655.1	PRINTING INDUSTRY IN GENERAL	.249	Other matters. Lists of founts, typefaces. Sets of characters
.11	History of printing. Discovery of book-printing techniques	.25	Production of information carriers for typesetting. Manuscripts, originals, copy for printing
.15	Printing houses, presses and related businesses	.251	Rules for the production and treatment of copy etc. Copy preparation. Correction marks
655.2	GRAPHIC REPRODUCTION PROCESSES. PRODUCTION OF PRINTING SURFACES.	.253	Creation of information medium for typesetting. Physical production of copy (e.g. handwritten, typed, by information storage devices)
22	✓ TYPESETTING, COMPOSING Production of printing surfaces (except composing) —655.24/.28; 774; 778.18	.254.2	Processing of copy. Editing, marking up, layout etc.
.222	Reproduction, duplication of printing surfaces. Duplicating of plates, blocks, type. Conversion of printing surfaces of one process into those of another	.4	Conversion of copy. Production of machine-readable record. Text-processing (word-processing) operations
.2	Stereotyping in metal	.26	Typography. Graphic design. Kinds of text (material to be set)
.3	Non-metal stereotyping	.262	Typographic design of the text. Aesthetic questions, text division and layout, arrangement of illustrations etc.
32	Stereotyping in rubber	.267	Kinds of text. Straight or mixed material. Foreign language or script. Tabular material
34	Stereotyping in plastics		Formulae etc.
4	Electrotyping —621 357	28	Typesetting. Composing —681.616
8	Conversion of printing surfaces of one process into those of another. Conversion methods		Special auxiliary subdivisions
.224	Production of recessed, intaglio printing surfaces. Gravure	655 28.02	Operations. Processes
1	Earlier intaglio processes (e.g. manual engraving, etching, heliogravure)	.022	Individual procedures in copy preparation and setting
2	Mechanical, photographic, electric, electronic and other processes for transferring the image on to intaglio plate or cylinder. Photogravure	.2	Basic principles and techniques of composing. Line formation, lineation. Justification. Word division. Column formation. Make-up of pages and sections (gatherings or signatures). Imposition
3	Quality and properties of intaglio plates etc. Depth of recessing (cell depth). Shape and size of cells or pits. Tonal rendering etc.	.3	Inception of setting operation. Data input. Manual keyboarding. Input by data carrier
.225	Production of original relief printing surfaces. Process engraving	.36	Use of electronic data processing. Input from computer
.1	Manual production of relief printing surfaces (e.g. manual engraving; cutting or incising)	.37	Remotely controlled input. Teletype setting
.2	Mechanical, photographic, electric, electronic and other processes for transferring the image on to relief plate or cylinder. Photoengraving	.5	Typesetting proper. Assembly and positioning of characters, matrices, type

655.28.022.7	Processes for the fixing and output of the finished setting (e.g. casting of type, developing and fixing of film). Output of data carrier (cast type, photocomposed matter etc.)	655.3.062.9	Spoiled sheets, discards
		Principal divisions	
.8	Correction and revision. Proofs.	655.32	Relief printing, presswork
.026	Proofreading. Proof correction. Revision	.322	Letterpress work
	Typesetting for particular kinds of product	.326	Other kinds of relief printing
	—655.3.026	.1	Flexography (rubber-plate printing)
.11	Setting of books	.3	Vacuum printing
.12	Setting of newspapers	.6	Linocut printing
.13	Setting of periodicals	.33	Diagraphic printing. Screen and stencil work
.23	Setting of jobbing work, advertising matter	.332	Screen printing. Silk-screen printing (serigraphy)
.027	Insertion of pictures into text. Setting, arrangement, integration of illustrations		—666.1.058.4
	—655.533	.335	Stencil printing
.028	Finishing work. Clearing and distributing of type. Tying up of set type. Storage of live matter, data carriers etc. Standing type	.34	Planographic printing
.06	Products of composing. Set type. Live matter	.341	Collotype printing
.062	Quality and characteristics of matter. Errors, defects etc.	.342	Lithographic printing (from stone plates)
		.343	Direct planographic printing from metal plates. Zincography
		.344	Indirect planographic printing. Offset lithography
Principal divisions		.35	Intaglio printing. Printing from recessed surfaces
655.281	Line-setting and casting (slug casting) processes (e.g. Linotype, Typograph, Ludlow)	.352	Intaglio printing from engraved plates
.282	Character-setting and casting processes (e.g. Monotype)	.353	Intaglio printing from etched plates. Gravure, photogravure printing
.285	Composing by hand. Manual typesetting with metal type. Composing with dry transfer lettering etc.	.366	Ancillary operations. Ruling. Pagination
.286	Typewriter composition	.392	Folding Cutting. Gluing. Coating Stamping etc.
	—681.612, esp. 681.612.84	.395	Electrostatic printing and similar processes
.287	Photocomposition (phototypesetting, filmsetting)		—778.1
	—681.616.7	655.4	Reproduction by means of colour reaction
655.3	PRINTING OPERATIONS AND TECHNIQUES. PRESSWORK		PUBLISHING AND BOOKSELLING IN GENERAL
	—667.52; 676; 681.62	.41	—686.1
Special auxiliary subdivisions		.411	Publishing in general. Publishing houses. Publishers
655.3.02	Operations. Processes	.413	Scientific publishing
.021	Preparatory operations. Make-ready.		Specialized publishing. Publication of works on special branches of knowledge or for particular reader groups, professions etc.
.022	Preparation of machine, forme, ink, paper		—087
.2	Printing procedure		655.413:05 Periodical publishing
.3	Stages of production. Proofing. Perfecting (backing up)	.418.1	:62 Technical publishing
.5	Inking the forme	.3	:78 Music publishing
.6	Physics of the impression area. Imprinting forces. Rolling pressure: Deformation phenomena	.42	Publishing on commission, via agent
.7	Printing according to mechanical principle. Flat-bed, cylinder, rotary. Direct and indirect or offset	.421	Publishing by the author. Self-publishing
.023	Form of paper or other printable surface. Sheet. Web or roll. Containers. Other shaped objects	.424	Bookselling in general. Selling of publications. General, antiquarian and wholesale bookselling
.024	Printing problems. Difficulties with forme, ink, machine. Mackle, blurring, slurring. Friars, monks etc.	.425	Retail bookselling. General bookshops
	Colour printing	.428	Railway station bookstalls. Sale of newspapers and periodicals. Newsagents. Newsvendors. Street news vending
	By number of colours, e.g.		Antiquarian bookselling. Second-hand bookselling
	655.3.024.3 Three-colour printing		—090.1
	.4 Four-colour printing		Bookselling by intermediaries (commission houses, wholesalers etc.)
.025	Printing on surfaces other than paper		
	—666.1.058.4; 667.027.5	655.5	VARIOUS OTHER QUESTIONS OF PUBLISHING AND BOOKSELLING
	655.3.025:678.5 Printing on plastics in general		—001.81; 179.1; 82.083
.026	Presswork for particular kinds of product		Special auxiliary subdivisions
	655.3.026 ≈ 655.28.026	655.5.03	Prices. Tariffs
.027	Printing of pictorial matter, illustrations. Line and half-tone work		655.5.03 ≈ 658.8.03
.028	Finishing work. Dusting and drying	Principal divisions	
.06	Products of presswork. Printed matter	655.51	Selection of manuscripts. Offers to publish.
.062	Quality and characteristics of printed matter. Errors, defects etc. Blemishes (— 655.3.023). Pictorial quality (fidelity of reproduction, contrast etc.) Distortion. Slurring. Showthrough. Poor registration. Interference patterns, e.g. moiré	.512	Submission, soliciting, acceptance of manuscripts
		.52	Appraisal of manuscripts. Publishers' readers. Commercial prospects, saleability. Target readership
		.521	Relations between publisher and author. Size of edition or print run. Royalties. Revised editions. Free copies etc.
		.522	Contract between author and publisher
			—347.788.1
			Royalties. Author's royalties. Publisher's royalties

655.523	Collaboration between author and publisher during printing and publication. Corrections. Illustrations	656.022.1	Regular routes. Scheduled services
.525	Intermediaries between author and publisher. Literary agents. Translation and adaptation rights	.2	Temporary routes or services
.53	Details of books, reports, periodicals, other publications	.3	Irregular services. Occasional, special services. Taxi, charter and excursion services
.531	Format and quality of paper	.4	Opening, alteration and discontinuation of routes
.532	Type style and printing details. Typeface. Size of print area. Column width	.5	Schedules, timetables. Arrival and departure
.533	Illustrations. Pictorial matter	.6	Unforeseen or accidental modifications to journey. Cancellation, interruption, postponement of journey. Extension, rerouting, diversions
	—655.28.027	.8	Routes according to importance and mode of transport
.534	Binding, casing, cover. Book spine	.81	Main routes
	—686.1	.82	Secondary routes. Feeder routes
.535	Parts of books, reports, periodicals and other publications	.86	Cabotage. Coastal navigation
.2	Bibliographic information in publications. Title page. Contents lists. Bibliographic strip (in periodicals). Erratum sheets (corrigenda) etc.	.87	Combined air and sea transport
.28	Colophon. Printer's and publisher's imprints. Identification number (e.g. International Standard Book Number, ISBN)	.88	Combined air and rail transport (e.g. for freight. Air-rail through-transit freight service)
.4	Foreword. Introduction. Preamble. Preface. Editorial remarks	.9	Area of operation. Places served or visited. Stops, stations, ports of call
.5	Text or body of publication. Textual divisions. Chapters, sections, articles, paragraphs etc.	.025	Transport of persons and goods
.6	Footnotes. References (in text)	.2	Transport of persons. Passenger transport
.6	Advertisements. Advertisement section		—656.072
	—659.131	.4	Transport of goods. Freight transport
.7	Indexes. Lists of figures, illustrations. Lists of references (separate from text)	.6	—656.073
54	Selling price of publications	.027	Transport of persons and goods on a large scale
	—655.5.03	.03	Transport according to speed, rapidity. Slow and express transport
55	Launching of publications. Promotion, publicity. Advertising of books etc. Reviews, press notices	.031	Tariffs. Transactions. Rates. Charges. Tolls. Transport costs and fares
	—659.1	.2	—658.8.03
.56	Sales organization	.3	Principles, structure of tariff
	—070.33; 656.886	.4	Gross tariff
561	Organization of distribution. Distribution via wholesalers, factors etc. Direct mailing, dispatch by post (e.g. of periodicals)	.5	Net tariff
563	Terms of supply and delivery (e.g. standing order; sale or return)	.8	Cost price tariff
567	Stocks of publications		General principles of tariffing
571	Publication on subscription	.032	656.031.5 ≈ 658.8.035
.578	Simultaneous publication in periodicals and as separates. Serialization in newspapers	.1	Alteration of tariff. Increase, raising of rates.
	—05; 070.448	.13	Reduction, lowering of rates
58	Publishing and selling by societies, guilds, book clubs etc.	.14	Tariffs for persons and their luggage
59	Publishing by organs of state, public authorities, utilities etc. Government publishing and presses	.2	Tariffs according to number and frequency of journeys
		.3	Season ticket rates (for single route or for network. Zone tickets)
656	TRANSPORT AND POSTAL SERVICES. TRAFFIC ORGANIZATION AND CONTROL	.33	Tariffs for given number of journeys (e.g. for six-trip or ten-trip tickets)
	—331.837; 351 81;	.34	Tariffs according to locality and distance.
	338.47/.48; 354.4;	.38	Transit or through-rate. Return fare. Rate for round trips, tours. Others
	343 346; 355 69;	.4	Tariffs according to time of journey
	347.763; 629;	.5	Night rates
	347.79/.8; 658 286	.6	Holiday rates. Rates for public holidays, rest days, other holidays. Holiday excursion rates
Special auxiliary subdivisions		.7	Rates for visits to fairs, exhibitions, theatres, sporting events etc. Special excursion rates
656-1/-9	Characteristics of transport and postal equipment etc.	.8	Tariffs according to category of passenger.
	<i>Details from 62-1/-9. NB -9 is not applicable under 656.833</i>	.9	Concessionary fares (e.g. child's fare)
	<i>The 01/.07 auxiliaries listed under 65 are not applicable here</i>	.033	Tariffs for groups of persons, for parties
656 01	General organization	.1	Tariffs for luggage
015	Stopping places. Resting places. Parking places	.2	Tariffs according to speed, rapidity of transport. Normal and express rates
.016	Servicing, refuelling, revictualling stations or posts	.3	Tariffs according to form of travel
.02	Transport routes, services and special characteristics	.4	Accommodation. Luxury, de luxe rate. Rates according to class of travel
.021	Traffic frequency. Traffic density. Traffic observation		Extra charges. Special tariffs. Charges for seat, bed (sleeping berth) and cabin reservations. Platform ticket charges. Free travel (gratis, free of charge)
.022	Routes. Lines. Services		Tariffs for freight. Goods rates
			Tariffs according to number and frequency of journeys
			Tariffs according to locality and distances
			Tariffs according to time of journey. Night rates. Rates for public holidays
			Tariffs according to consignors and consignees of the goods (e.g. special rates for public authorities)

656 033.6	Tariffs for specific purposes. Tariffs according to nature of the goods. Rates by volume, by properties, for produce, for bulk goods. Charges for particular objects, e.g. bicycles —620.2	656.052.5	Travel in particular conditions, especially meteorological. Travel in various weathers Travelling blind (e.g. flying blind). Travel on bad surfaces. Abrupt changes (gusting, loss of anchor etc.)
.7	Tariffs according to speed, rapidity of transport. Normal and express goods rates	.59	Acrobatic travel. Stunt riding, driving etc. Aerobatics
.8	Special tariffs. Rates for collecting, bulking. Rates for carriage with limited liability. Dead freight	.7	Completion of journey. Stopping. Landing. Docking, mooring, anchoring etc.
.9	Extra charges. Charges for insurance, registration etc. Rates for reply-paid and cash-on-delivery (COD) service etc. Charges for loading, transshipment, warehousing etc Port or harbour dues, wharfage etc.	8	Instruction, practice, training in vehicle control e.g. at 656.13.052.8
.034	Tariffs for transport of animals 656.034 ≈ 656.032	9	Journey reports. Captain's log etc
.035	Collection of money, fares	053	Traffic restrictions and control. Regulation of traffic
.2	Methods of fare collection. By persons (conductors, booking clerks etc.) By machine. Automatic fare collection, ticket machines etc.	2	Restrictions on speed. Speed limits
.3	Ticket control. Ticket inspection	3	Restrictions on direction. One-way systems Roundabouts etc.
.4	Measures against irregularities. Penalties, fines for travelling without valid ticket etc.	.4	Restrictions on vehicle weight or dimensions
.6	Payment for reserved seats, berths, cabins etc. Reservation dockets	41	Prohibition of specific kinds of vehicle
.71	Prepayment. Payment in advance	.42	Restrictions on length, width, height of vehicles
.77	Subsequent payment. Payment in arrears	.43	Restrictions on vehicle weight
.039	Travel documents. Tickets. Vouchers	.431	Restrictions on type of load
.1	Tickets etc. for passengers and luggage in general	.432	With persons as load. Limit to number of passengers
.4	Documents for goods transport. Freight documents. Bills of lading. Cargo manifests Way-bills. Consignment notes —347.795	.5	With goods, freight. Load dimension and weight limits
.6	Documents for transport of animals	.6	Waiting restrictions. Prohibition of stopping
.7	Customs and excise documents. Documents relating to trade quotas	.7	Restrictions on staying (longer-term) Parking restrictions. Prohibition of parking, mooring, landing
04	Damage. Delays. Complaints. Liability —347.796; 347.824	8	Restrictions on traffic noise. Restriction of audible warning systems (e.g. of use of horn on motor vehicles) —351.759.4; 534.836; 625.098; 628.517.2
.043	Damage. Delays in transit	054	Obstruction of traffic routes. Closing of thoroughfares to traffic. Keeping access to buildings clear
.045	Liability	.1	Traffic signals —654.9 and references there
.2	General questions. Kinds of liability. Absolute liability (liability without fault). Liability for negligence, delay, stopovers	.2	Signals given by traffic officers
.3	Limitation of liability	3	Signals given to traffic officers
.4	Exclusion of liability. Non-liability. Saving clauses ('exemption from liability' clauses)	.055	Signals made by route users to each other
.5	Liability of fixed-location organizations. Liability of stations, ports etc.	.9	Indication of speed changes, braking, halting, direction changes —629.1.018.5; 656.057.88
.6	Liability of the carrier: driver, captain, pilot etc.	.96	Fixed, permanent traffic signs —625.745.6; 625.746.5 656.055.2/8 ≈ 656.053.2/8
.7	Liability of owner or keeper	.056	Warning signs. Danger, hazard signs. Signs for bends, junctions, level crossings etc.
.8	Liability of unlawful driver or pilot	.057	Traffic priority signs. Prohibitory and compulsory signs
.05	Traffic. Traffic signs and signals —351.81; 625.746.5; 654.9 and references there	.1	Others. Signs for traffic islands (refuges), direction of traffic flow, skid hazards etc.
052	Driving of vehicles. Navigation Manoeuvres —527	.3	Route signs. Direction signs. Distance signs.
1	Navigation. Route planning	.4	Place-name signs
.3	Moving off. Starting	.7	Movable, temporary signs. Halt signs. Traffic lights —625.746.5; 628.975
.4	Control during journey. En-route driving, manoeuvres etc.	.87	Lights and beacons. Light signals (except traffic lights) —628.975
.42	Journey in straight line. Rectilinear travel	.88	Lights for marking out path (flare-paths etc.)
.43	Speed. Duration. Distance	.06	Lights for various purposes. Illuminated signs 656.057.3 ≈ 656.053
.44	Speed changes. Acceleration. Deceleration, braking		Guiding lights, beacons (e.g. at harbour entrance) —627.71
.45	Direction changes in general		Small illuminated signalling devices (fixed or independent). Intermittent lights (flashing beacons), e.g. for fire service, for police
.46	Direction changes in the horizontal plane. Turning. Reversing		Lamps on vehicles, for illuminating the road. Headlamps
.47	Direction changes in the vertical plane. Changes of altitude, height, depth. Climbing, ascent. Diving, descent		Exterior lights on vehicles. Position lights (side-lights, rear-lights). Illuminated direction indicators —629.1.018.5; 656.054.3
.48	Travel with regard to obstacles. Manoeuvring with regard to other vehicles		Ancillary services

656.062	Service stations in general —629.119; 725.382 656.062.6/8 ≈ 662.6/8	656.073.25	Unloading
.064	Provision of fuel and supplies to service and filling stations —629.119.5; 725.384	.27	Temporary storage, warehousing
.6/8	Supply of various fuels (to filling stations) 656.064.6/8 ≈ 662.6/8	.28	Transport within terminal or port
.065	Provision of fuel and supplies to vehicles —629.082; 629.084	.3	Distribution of goods in the vehicle
.2	Supply of spare parts	.37	Empty running of conveyance
.3	Supply of fuel. Refuelling. Bunkering. Tanking up. Filling —629.119.5; 725.384	.4	Classification of goods or freight 656.073.4-4 Shape, form etc. of goods (from 62-4)
.4	Supply of lubricants	.41	Particular objects as freight (e.g. bicycles)
.5	Supply of coolants —621.643.54	.42	Freight according to ownership. Passenger luggage. Property of third parties. Property of the crew, carrier etc.
.8	Revictualling. Supply of food and drink	.43	Freight according to various characteristics. According to value (Valuables, money etc. Goods of medium or little value). Postal items. Packages. Heavy or bulky goods. Fragile goods
.07	Administration, management of transport, traffic etc. <i>Not applicable at 656.82</i>	.436	Dangerous goods or freight —614.75; 620.26; 656.833.3
.071	General administration. Grades and functions	.438	Corpses as freight —614.63
.1	Command. Senior technical staff. Captain, pilot. Engineers. Mechanics. Radio, telegraph operators etc.	.44	Freight according to kind of vehicle required (e.g. in tipping vehicles, in refrigerated vehicles) —664.8.037
.2	Lower-grade technical staff. Assistants, mates. Able seamen. Firemen, stokers etc.	.45	Freight according to kind of stowage (e.g. in holds, bunkers, tanks)
.3	Administrative staff on vehicle. Accounts, pursers etc. Domestic, catering etc. Baggage, luggage handling. Inspection, security	.46	Freight according to destination and length of journey (e.g. goods for markets)
.4	Station and port services. Directorate (stationmaster, harbourmaster, airport controller). Accounts. Traffic control. Domestic, catering etc. Baggage, luggage handling. Porters. Inspection, security	.48	Freight according to management and disposal. Undelivered goods. Goods refused by carrier. Lost and found (lost property). Losses and thefts in transit. Unclaimed goods —347.7; 347.232.1; 351.759.5; 656.878
.6	Hygienic and medical services	.5	Supervision and inspection of goods traffic. Official inspection, customs. Inspection by the operator. Inspection by other agencies
.7	Pilotage. Guides, pilots —627.717	.6	Care and treatment of goods or freight. Decanting. Changing container. Repair of packaging, labelling
.8	Maintenance and repair service. Cleaning service	.8	Damage to goods or freight
.072	Passenger services and formalities —656.025.2	.851	Intrinsic defects. Faults of construction. Wear and tear (scuffing, cracking etc.). Leakage. Short weight. Melting. Ullage
.1	Bookings, ticket sales. Registration of passengers	.852/.856	Damage caused by natural forces 656.073.852/.856 ≈ 656.085.2/.6
14	Bookings via booking agencies —656.079	.86	Damage caused by humans 656.073.86 ≈ 656.086
.2	Boarding (entraining, embarking etc.). Changing, transfer between routes or vehicles. Alighting, disembarkation	.074	Services and formalities for transport of animals 656.074 ≈ 656.072
.27	Stopovers. Enforced stay. Awaiting connections	.075	Domestic services on transport —656.071.8; 656.072.6
.3	Distribution of passengers on the vehicle	.076	Kind of use of vehicles
.4	Classification of passengers	.1	Private use of vehicles. Pleasure vehicles. Use of vehicles on private business, in commerce
.41	Passengers according to class of travel	.2	Use of vehicles for public transport. Use by common carriers
.42	Passengers according to number	.3	Charter of vehicles. Hiring of vehicles (with driver)
.44	Passengers according to kind of journey. Tourists	.4	Leasing, hiring, rental of vehicles (without driver)
.45	Passengers on official business	.5	Lending, loan of vehicles. Other arrangements with a third party
.46	Passengers according to destination (e.g. visitors to markets, trade fairs etc.)	.6	Laying-up of vehicles. Interruption of service
.5	Supervision, inspection of passenger transport. Passport control, quarantine etc. Inspection by the operator —656.073.5	.7	Assistance, auxiliary services to vehicles (not emergency). Towage, tug service —626.7; 627.718; 656.087
.6	Passenger services. Care of passengers. Accommodation, catering, entertainment etc.	.8	Change of vehicle use. Use in different operation
.7	Relations with passengers. Supervisory measures. Conduct, behaviour of passengers	.078	Measures for promotion and development of transport. Competition and coordination in transport
073	Goods transport services and formalities —656.025.4	.1	Cooperation between transport undertakings. Sharing, pooling of traffic. Common operation of routes, lines. Joint organization, equipping etc.
.1	Booking and registration of freight.	.2	Agreements with consignors or forwarding agents (giving preference to carrier)
.2	Acceptance of goods for transit —621.798		
.21	Loading		
.23	Transshipment		
.235	Transport in crates —621.869.88		
.24	Change of destination. Change of means of transport		

656.078.3	Facilities for despatch and payment	656 117	Temporary use of roads for non-transport purposes. Use of roads for meetings, ceremonies. Fairs, street markets. Others
.4	Rebates. Discounts. Price reductions, concessions		Wheeled transport. Haulage, cartage, carriage. Conveyances (including animal-drawn, horse-drawn traffic)
.8	Competition. Rival forms of transport. Competition in the same form of transport	.12	Public conveyances in towns. Vehicles for hire. Hackney carriages
.079	Travel agencies, bureaux —656.072.14	.121	Goods transport. Haulage, cartage. Parcel carriage and delivery. Carts and vans —656.025.4; 656.073
.08	Accidents. Assistance in accidents <i>Not applicable at 656.82</i> —614.8, esp. 614.85/86; 656.04	.125	Private conveyances. Private carriages (especially horse carriages)
.082	Derailments. Overturning of vehicles. Falling of vehicles (e.g. aircraft crashes)	128	Motor transport. Motor-vehicle traffic 656 13 052.8 Instruction in motor-vehicle use. Driving instruction. Driving schools
083	Breaks, ruptures of couplings	13	Public motor vehicles. Motor vehicles for hire. Taxis —656.076.3/.4
.084	Collisions, crashes. Collisions with other vehicles or craft. Collisions with obstacles. Running over	.131	Motoromnibuses (omnibuses) Bus services
085	Various other accidents. Sinking, foundering etc.	.132	Haulage by motor vehicles. Goods transport by lorries, vans —656.025.4; 656.073
.1	Accidents due to intrinsic defects of vehicle etc. Unfitness for use (Un-roadworthiness. Un-seaworthiness. Un-airworthiness). Vehicle wear and tear —656.091.2	.135	Motor-transport trains. Vehicles with trailers
.2	Accidents due to natural forces generally (e.g. earthquake; flood; bad weather, ice, fog etc.)	.136	Road trains
.3	Shipwreck	.137	Agricultural tractors. Other special-purpose motor vehicles —631.371
.4	Beaching. Stranding. Running aground	.138	Private motor transport. Private cars, automobiles
.5	Fires. Conflagrations	.142	Pedestrian traffic
.6	Explosions	.145	Transport on animals. Riding. Pack-animals, sumpters
.086	Damage caused by humans	.18	Transport by bicycle. Pedal cycle traffic. Motorized cycle, moped traffic. Motorcycle traffic
.1	Damage caused by crew, vehicle personnel (e.g. through malice, carelessness, fatigue)	.19	Other kinds of road transport. Wheelless traffic, e.g. sledging, skiing
.2	Damage caused by hostilities, enemy action etc. (e.g. seizure, blockade, armed force. Piracy, theft)	.2	Rail transport. Rail traffic —351.812, 625.1/.5
3	Damage caused by shore or ground personnel (servicing, maintenance staff etc.)	.21	Railway operation. Tracks. Buildings. Stations —725.3
.087	Assistance to vehicles in emergency. Towing —629.1-474.23; 656.076.7	.211	Siting and layout of passenger stations. Halts, stops, terminuses. Platforms etc.
.088	Vehicle recovery, refloating etc. —629.119.4; 629.129	.212	Siting and layout of goods stations. Freight depots. Loading and unloading tracks, platforms etc.
.089 2	Safety exercises, practice. Lifeboat drill etc	.213	Special stations. Coaling stations. Stations for livestock, stockyards. Dock stations. Private stations, sidings etc.
.09	Other matters	.216	Individual installations on the track
.091	Documents, certificates, licences relating to vehicles and their operation	.2	Level crossings. Crossing gates —625.162; 656.265
.1	Licences and permits authorizing the operation of vehicles. Driving licences. Navigating, pilots' licences etc	.3	Stopping places
.2	Documents relating to the vehicle. Vehicle registration documents, log books. Certificates of fitness for service (certificates of roadworthiness, seaworthiness, airworthiness) —347.823.34; 629.017; 629.1.074; 656.085.1	.22	Commercial organization of railways. Train services
.3	Permits relating to the engine and equipment of the vehicle (e.g. permits to operate steam engines)	.222	Running of trains. Route, itinerary —656 022
.4	Documents relating to use or employment of the vehicle. Accommodation permits (e.g. berthing papers)	.2	Speed limits. Loads
.5	Documents indicating ownership and nationality	3	Make-up of trains. Type of rolling stock
.6	Excise documents. Customs clearance papers. Customs permits (triftyques) etc.	.4	Class of carriage
.7	Safe-conduct documents. Sea-letters (sea-passes) etc. <i>For personal passports and visas — 351.755.61; 351.756</i>	5	Track diagrams. Capacity of lines
Principal divisions		.223	Passenger services. Indicators of route. Schedules, timetables —656.022.5
656.1/.5	LAND TRANSPORT	1	Use and distribution of rolling stock
.1	Road transport	.2	Passenger stock. Passenger coaches and trains
.11	Highways, roads, bridges and their use. Organization of road traffic —351.811; 625.71.8 656.11:625.711.1 Organization of traffic on trunk roads. Arterial traffic	.224	Freight stock. Goods wagons and trains. Exchange between networks, and return of empty wagons —656.078.1
		.225	Passenger train services. Departure, arrival, control —656.025.2; 656.072
			Freight or goods train services. Bulking, make-up of loads —656.025.4; 656.073

656.226	Baggage, luggage service. Parcel service —656.073.42/.43	656.61	Transport by sea. Maritime navigation, shipping
.23	Financial and commercial matters of railways 656.23.03 Railway tariffs, rates, fares		656.61.052 Control of vessels. Navigation. Manoeuvres
.236	Charges for transport other than the rail journey itself. Charges for collection and delivery. Charges for connections with land or water transport etc.	.612	:551.326 Navigation etc. through floating ice
.25	Safety measures. Signals —629.4.067; 654.9 and references there	.613	Vessels. Ships. Merchant fleet. Composition of fleet. Shipping losses, wrecks etc.
.252	Hand signals and manually controlled signals. Signals on trains. Surveillance of trains in general. Signals along the train. Head and tail signals. On-board station indicators. Checking of trains in stations	.614.2	Secondary transport for shipping. Connecting, feeder services (by land, air or water)
.253	Fixed signals on tracks and at stations. Station indicators (destination boards etc.) at stations. Signals at tunnels and crossings	.3	Passenger transport by water. Passenger shipping —656.025.2; 656.072
.254	Long-distance communications systems. Telecommunications in rail transport. Use of telegraphy, telephony, radio, television. Audible warnings, bells, alarms. Communication between stations and moving trains. Dispatching system. Cover, security of trains in emergencies (distress calls etc.) —629.4.05	.615	Goods transport by water. Freight, cargo shipping —656.025.4; 656.073
.255	Shuttle operation on single-track lines	.616	Operation of ports, harbours. In-port towage, tug service —627.2; 656.071.4; 656.076.7
.256	Block systems	.618	Operation of docks —627.3
.257	Central control of signals and points. Loose and rigid connections —625.151.3	.62	Coastal, inshore shipping. Coasting. Tugboat navigation. Barging and towing —656.022.86; 656.076.7
.258	Locking, engaging. Release, disengaging	.627	Transport by inland waterways. River and canal traffic 656.622/.626 ≈ 656.612/.616
.259	Other safety devices	.2	Bridge and lock services. Other ancillary works —627.7
.1	Safety devices actuated by the train (e.g. retarders, rail brakes) —621.337.6; 625.151.6; 625.156	.3	Bridge services. Operation, maintenance etc. of bridges —624.2/.8
.2	Release, disengagement of signals and brakes on the train by means of the track	.4	Lock services. Operation, maintenance etc. of locks —626.4
.3	Safety devices for electric trains, acting by current reduction or cut-out	.628	Boat hoist services. Operation, maintenance etc. of lifting gear for vessels —626.5
.4	Block signals actuated by the train	.629	Traction on rivers and canals. Inland tugboat navigation. Barging and towing on inland waterways
.5	Explosive signals for railways. Rail detonators	.65	Local, short-distance water transport. Water taxis. Water buses. River boats, passenger steamers etc.
.6	Locking of signals and points. Free-fall signals	.66	Transport on lakes. Lake navigation and traffic
.26	Ancillary operations, services		Transport by ferryboat. Ferry services. Ferry traffic
.261	Collection and delivery of goods. Delivery service	656.7	TRANSPORT BY AIR. AIR TRAFFIC —347.82; 351.814
.262	Railway buffets, restaurants, refreshment rooms. Railway hotels		656.7:632.982.4 Flights for crop spraying
.265	Gatekeeper, crossing-keeper duties —656.216.2		:656.86 Transport of mail by air. Airmail service —656.834.3
.27	Operation of branch lines with light traffic (but belonging to main networks). Operation of light railways. Simplification of services and procedures		.659.138.6 Flights for advertising, publicity
.3	Transport by special railways, industrial railways, works railways	71	Landing places. Airfields. Aerodromes
.33	By railways of special construction —656.33 ≈ 625.3		Airports and ancillary services —625.717; 725.39
34	By elevated and underground railways, tramways etc. 656.34 ≈ 625.4 <i>Alternatively, class tramway services at 656.4</i>	.73	656.71 ≈ 656.61
35	By aerial ropeways and cableways. By telphers etc. 656.35 ≈ 625.5	.74	Commercial air traffic
4	Transport by light railways 656.4 ≈ 656.2	656.8	Non-commercial air traffic
.5	Other forms of land transport —621.86/.87; 622.6		POSTAL SERVICES AND ADMINISTRATION —351.816
52	Transport and traffic inside large buildings —658.286.2		656.8:061.1(100) International postal conventions (e.g. Universal Postal Union, UPU)
56	Conveying of fluids (liquids, gases) by pipeline —621.643/.644; 622.691/.692	.81	Branches, departments of the postal service —656.07
656.6	TRANSPORT BY WATER —347.79; 351.813; 626/627	.811	656.81:651 Office management aspects
		.815.1	Personnel of the postal service Administrative departments of the postal service. Central and regional administration

656 815.3	Postal service points. Post offices.	656.835 16	Sale of postage stamps. Sale at post offices, by agents etc. Stamp vending machines Day of issue. Period of sale —681.13
.6	Sub-post-offices etc.		
.816.3	Technical departments of the postal service		
.31	Technical installations and equipment of the postal service	.168	Sale of used postage stamps
.82	Postal sorting installations. Sorting machines	.17	Validity of postage stamps. Misuse, forgery, falsification, substitution etc. of stamps
	Management and general operation of postal service	.18	Questions relating to design and production of postage stamps. Designs, art work, lettering, colours of stamps. Printing and misprints, gumming, perforation etc.
	<i>The .07/.08 auxiliaries listed under 656 are not applicable here</i>		Prepayment without use of postage stamps
83	General conditions of acceptance of mail	.3	Lump-sum prepayment Postage subscription
.831	Preparation of mail. Making-up of packets etc.	.31	Prepayment using franking machines —681.173.7
.2	Addresses. Name and address of recipient Additional information (e.g. name and address of sender)	.33	Prepayment in cash
3	Use of tie-on or adhesive labels, transparent address panels (e.g. in window envelopes) etc.	.34	Philately. Stamp collections
.4	Items without addresses or with simplified addresses	.91	<i>For stamp collecting as hobby — 379.824:656.835.91</i> —686.82
.5	Packaging. Characteristics of packages. Weight. Size, dimensions. Sealing		686.835 91:069 Museums, permanent exhibitions of postage stamps
.7	Combined, bundled items. Items fastened together. Attachments. Enclosures		(or — 069 02. ; cf 069 51)
.833	Restrictions on acceptance of mail	.84	Posting of mail
Special auxiliary subdivisions		.841	Posting in post offices, over the counter
	<i>The -9 auxiliaries described at 62-9 are not applicable here</i>	.842	Posting at postal vehicles and craft (handing in to vans, boats etc.)
656 833-932	Conditional acceptance of mail	843	Posting in post boxes. Kinds of post box, pillar box etc. Collection, clearing of mail from post boxes —625.748.4
-934	Refusal of mail. Exclusion from postal service		
Principal divisions			
656 833.3	Restrictions on account of content of items. (Fragile or perishable contents. Liquids. Live animals. Dangerous packages. Packages with prohibited contents) —614.75; 620.26; 656 073.436	.845	Other modes of posting
.6	Offensive, indecent, immoral items. Obscene mail. Items prejudicial to law and order —343.542	.847	Hours of opening of post offices. Hours of counter business, of posting
.8	Items unsuitable for postal conveyance because of shape or any other reason	848	Handling of mail after posting
.834	Mail liable to surcharge Mail subject to special treatment	.3	Date stamping. Cancelling, postmarking
.1	Registered items. Registered mail	85	Dispatch of mail. Exchange of mail between countries
.3	Urgent or express items. Air mail	851	Preparation of mail for dispatch. Sorting and routing of mail. Coding of address, destination (post codes)
.4	Mail with advice of shipment, delivery, payment. Mail with transit note etc. Recorded-delivery items —656.883.1	.852	Dispatch of mail
.6	Mail for conveyance by pneumatic tube	.853	Arrival and receipt of mail (at office of destination)
.8	Bulky, cumbersome mail. Fragile items	.86	Transport, conveyance of mail —621.867.87; 656.1/.7, e.g. 656.7:656.86
.835	Prepayment of postage. Franking. Postage stamps. Philately	.87	Distribution, delivery of mail
.1	Prepayment of postage with printed validation. Postage stamps. Prepaid postal stationery	.871	General conditions of delivery
11	Postage stamps	.872	Ordinary delivery to addressee House delivery of mail
.111	Postage stamps with general validity Special issues: commemorative stamps, charity stamps etc.	.873	Collection of mail by addressee. Post restante. Private boxes, PO box etc.
.112	Postage stamps for particular kinds of mail (e.g. parcel post stamps) or transit (e.g. air mail stamps)	874	Delivery by special messenger. Express delivery
.113	Postage stamps for official business etc. Postage stamps for government use, for armed forces, for various organizations	878	Undeliverable items. Returned mail. (Redirection. Return to sender etc.)
.114	Stamps without prepayment value (e.g. postage-due stamps, fiscal, revenue stamps)	.88	Individual postal services
.116	Stamps for private postal services (e.g. hotel postage stamps)	.881	Letter-post service
.119	Form of issue of postage stamps. Blocks, rolls, sheets etc. of stamps	1	Letter-post items with personal communications. Letters, postcards etc.
.12	Prepaid postal stationery (with embossed, impressed or printed-on postage stamps). Prepaid postcards, letter cards, envelopes etc.	3	Letter-post items without personal communications. Printed matter. Samples. Packets etc.
.13	Reply coupons	.4	Insured mail. Letters and packets with declared value —368.26
		.882	Parcel post service
		.883	Postal money collection and payment services
		.1	Postal money collection service. Cash-on-delivery (COD) service. Bill collection. Other collection services —656.834.4
		.3	Postal remittance and payment service. Postal orders. Money orders etc.
		.884	Postal cheque clearance and credit transfer service. Post-office giro —336.717.1

656.885	Post-office savings bank service	657.34	Ledgers. Transferring, posting of journal entries into ledger
	—336.722		Subsidiary books of account
.886	Post-office subscription service for serials, newspapers, periodicals	.35	Order books. Books of purchases (bought books). Sales books
	—050; 070.33; 655.56/.571	.352	—657.422.8; 658.813
.887	Post-office passenger transport service.		Secondary, auxiliary cash books
	Post-office conveyance of persons	.353	Bill books. Bill diaries (due-date registers).
.96	General forwarding agencies.	.354	Bank books (passbooks). Bank transfer books
	Intermediaries, brokers, commission agents for carrier services		Stock or warehouse books
	656.96 = 656	.356	—657.371; 658.787
657	ACCOUNTANCY	.36	Trial balances. Rough balance.
	—06.047, 336.717.16; 336.722.6; 347.719; 347.728.1	.37	Debit-and-credit balance. Interim balance
		.371	Annual closure of accounts
657.1	BOOKKEEPING METHODS, SYSTEMS, TECHNIQUES	.372	Stocktaking. Inventories
.11	Single-entry bookkeeping		—657.356; 658.787
.12	Double-entry bookkeeping		Balancing of accounts. Methods, techniques for preparation of balance-sheet
.15	Financial, budgetary bookkeeping		657.372.01 Theory of balances. Static and dynamic balances
657.2	ACCOUNT KEEPING. RECORDING, ENTERING OF TRANSACTIONS. BOOKING OF ENTRIES	.1	Drawing-up of balance-sheets in general
.21	Accounts: definitions, functions, purpose. Sets of accounts. Debit, credit. Incomings, outgoings	.12	Profit-and-loss analysis
			—657.44 and references there
.22	Opening, keeping, closing and reopening of account books	.14	Closing of books and carrying forward of balances
.221	Opening and organization of account books	.2	Valuation
.222	Keeping, running of account books		—332.64; 657.92
.223	Reorganization of account books during trading (within business or financial year)	.3	Adjustments for decrease of value.
.224	Closure of account books (e.g. following liquidation)	.4	Depreciation, amortization. Writing off
.225	Reopening of account books	.5	Adjustments for increase of value
.23	Cross-entries. Adjustments. Cancellations. Correction of errors		Goodwill
24	Evidence of transactions. Bookkeeping documents	.375	—347.715; 657.421.3
242	Documents of cash transactions. Receipts. Notes of quittance. Cancellation of bills, invoices	.1	Kinds of statement or balance-sheet
.243	Documents referring to goods movements. Dockets for goods inwards, goods outwards	.2	Annual statements. Trading balances
.1	Bills, invoices	.3	Fiscal balances
.2	Consignment notes. Dispatch advice notes. Bills of lading, shipping etc.		Special, extraordinary statements (balances at established, amalgamation, reorganization, takeover, liquidation, bankruptcy, insolvency etc.)
.244	Credit documents (as bookkeeping evidence)	.6	Consolidated balance sheets
	—336.777; 347.457; 347.74	.7	Condensed balance sheets
.1	Bills of exchange. Money orders, drafts.	657.4	ACCOUNTS. ACCOUNTING SYSTEMS. COST ACCOUNTING
.2	Promissory notes. Letters of credit		657.4.012.2 Accounting plan. Compulsory systems of accounting
.5	Cheques. Money transfer documents	.41/.45	Kinds of account
.6	Warrants (for goods or money)	.41	Capital accounts
.7	Commission notes	.411	—330.14; 347.72.033; 658.14
.246	Lists of bills for discount	.1	Own capital (of enterprise)
	Bookkeeping documents of internal transactions. Internal vouchers etc.	.3	—336.647; 658.147
25	Physical presentation of books of account. Layout, arrangement of accounts.	.6	Capital accounts. Private capital
28	Bookkeeping scripts etc.	.8	Share capital
282	Methods of payment		657.411.31/.36 = 336.763.21/.26
.286	Cash payments	4 12	Reserve capital
	Remittances	.1	Profit-and-loss accounts (from point of view of own capital)
657.3	BUDGETS. ESTIMATES. CLOSURE OF ACCOUNTS. BUSINESS RECORDS. BALANCES	.2	—657.44 and references there
.31	Budgets. Estimates. Financial plans	.4	Outside capital (borrowed, loan capital)
	—336.12	.6	—336.648; 658.148
.312	Kinds of budget (general, current, variable)	.7	Non-negotiable bonds. Debentures.
.2	Financial budgets		Mortgages. Pledges
.3	Business, trading budgets	.42	—336.763.3; 347.27; 347.728.3; 347.798
.5	Fixed and variable budgets	.421	Negotiable bonds
.313	Calculations before and after trading. Comparison of estimated and actual expenditure. Variations from estimates	.1	Long-term and short-term bonds
.32	Books of account in general. Cash books		657.412.42 = 657.424
.33	Memorandum books. Day books. Journals		Insurance reserves. Life-insurance reserves.
			Fire- insurance reserves
			Provident funds (welfare, pension, sickness-benefit funds)
			Accounts of working, floating funds
			Fixed assets. Invested capital
			—658.152
			Tangible assets, their conveyancing and amortization (writing off). Real estate and movables

657.421.3	Intangible assets and their amortization (writing off). Rights, concessions, patents etc. Goodwill. Trade secrets. Others —347.715; 657.372.5	657.471.6	Cost centres (e.g. production units, machinery)
.422	Floating, circulating assets. Liquid capital —658.153.2	.7	Cost unit accounting
.1	Money. Cash. Funds in bank. Open credit	.474	Processing of costs
.2	Call money	.2	Relations between commercial accounting and cost accounting. Cost apportionment sheets. Shop or factory accounting
.3	Bills, receivable and payable	.5	Calculation of costs. Costing. Calculation methods
.4	Credits for redemption	.478	Evaluation, appraisal of costing
.5	Various securities	.2	Estimates (preliminary, interim and final)
.6	Coupons for encashment	.5	Uniform methods of cost accounting
.7	Stocks of raw materials. Intermediate products (half-finished goods) in store —658.272/273	.7	Short-range profit estimating
.8	Stocks of finished products (goods for sale) —658.62; 658.784	.8	Cost comparisons. Comparison over a period of time. Projected and actual costs Method comparison
.423	Purchase accounts. Sales accounts. Turnover or trading accounts —657.352; 657.444	479	Special problems of cost accounting
.2	Trading or operating assets Working capital	.2	Effect of capacity usage ratio and output level on costs
.3	Forward transactions, futures (in securities or goods) —336.764.2	.3	Cost reduction or lowering, e.g. through mass production
.4	Work in progress (orders in hand). Construction, manufacture etc.	.4	Accounting for residues (wastes), by-products, linked products
.5	Agencies. Offices. Branches	.5	Discretionary factors
.424	Investments —336.767	657 6	OFFICIAL VERIFICATION OF ACCOUNTS
.2	Short-term investments (against security, mortgage etc.)		AUDITING
.4	Long-term investments	.62	—336.126
.425	Redemption or amortization accounts	.63	657.6.007.3 Staff, internal auditors
.43	Personal accounts	.631.6	.007.62 Consultant, outside auditors —65.012.16
.431	Kinds of personal account. Current accounts and interest accounts —336.717.4	.8	Analysis and verification of balance-sheets
.432	Debitor accounts. Payments to suppliers. Orders	.632	Examination, verification, audit of account books
.433	Creditor accounts. Liabilities, commitments. Payments from customers	.633	Relations with the client. Reports on state of finances
.435	Partnership accounts	.635	Compulsory auditing. Statutory obligation of auditing
.437	Accounts for agents, representatives etc (for purchasing and selling, buyers, salesmen)	657 92	Frauds and errors —343.537; 657.23
.44	Profit-and-loss accounts —336.67; 347.72.035; 657.372.12; 657.411.8; 658.155		Technical details of auditing. Detailed audit, internal checks etc.
.442	Results of various business operations. Incidental profits and losses. Unforeseen expenses	658	Auditors' certificates, reports, statements
.443	Various commissions and interest		APPRAISAL. ASSESSMENT. TECHNIQUE OF ESTIMATING AND VALUATION
.444	Sales accounts —657.422.8	.922	—657.372.2
.445	Variations of stock		657.92:336.2 Valuation assessment for taxation —336.2.026
.446	Non-operational expenses and revenues (taxes, insurance etc.)		:657.47 Valuation for costing
.447	Turnover. Calculation of business		Valuation technique, particularly for real estate (property appraisal) —332.64
.45	Other kinds of account		BUSINESS MANAGEMENT, ADMINISTRATION. COMMERCIAL ORGANIZATION
.451	Distinction between general and special accounts or group and subsidiary accounts		—061.5; 33, especially 339; 347.7; 651; 657; 659
.454	Adjustment accounts. Clearing accounts. Controlling accounts. Contra accounts	658.1	FORMS OF ENTERPRISE. FINANCES
.47	Costing. Cost accounting —338.5; 65.03; 654.03; 655.5.03; 656 03; 658.7.03; 658.8.03	.11	Kinds and forms of enterprise —334.7
.471	Costs. Kinds of cost. Cost centres. Cost units	.112	Site, location, place of business
.1	Kinds of cost. Production costs 657.471.1:658.8 Marketing costs :659.1 Publicity costs	.2	Principal site (head office, main works etc.)
.11	Material costs. Materials pricing. Stock valuation. Current market price. Average price. FIFO (first in first out). LIFO (last in first out). Other systems	.3	Subsidiary sites (branch offices, works etc.)
.12	Labour costs. Wage and salary costs. Social security costs	.114	Forms of enterprise in general. Private businesses —334.722; 347.72
.13	Site costs. Accommodation costs	.1	Sole proprietorship. Ownership by single individual. Individual traders. One-man businesses
.14	Plant costs. Costs of machinery, equipment	.2	Partnership
.16	Notional costs (expenses assumed for costing purposes)	.25	Trading partnerships (Sociétés en nom collectif)
.17	Offsetting of internal services	.3	Companies with share capital in general
		.32	Limited partnerships (Sociétés en commandite. Kommanditgesellschaften)

658.313 (cont'd)	658.313 $\approx$ 331.13	658.516.2	Standardization of equipment, tooling
314	Regulations and procedures of office or workplace —65.012.42	.3	Standardization of work, operations, processes
	658.314 $\approx$ 331.14	.52	Kinds of production —338.36
.315	Relations between management and workforce within the firm —174.8; 65.012.41		658.52.011.2 Evaluation of kinds of production. Lot sizes
	658.315 $\approx$ 331.15	522	.56 Automated production
.32	Salaries. Wages. Remuneration. Pay —331.2	523	Single-item production. One-off production
.321	Payment methods and times, wage levels etc. 658.321 $\approx$ 331.21	.524	Special-order production. Jobbing. Making to order
.322	Payment systems. Wage scales, indexes etc 658.322 $\approx$ 331.22	526	Batch or lot production. Series production
.323	Basis of calculation, piece rate, time rate etc 658.323 $\approx$ 331.23	.527	Mass production
.324	Participation in profits. Share of profit —331.174; 331.24	53	Continuous production. Line production. Flow production
.2	Sharing of proceeds. Profit-sharing. Dividend system. Percentage system. Bonus system	531	Performance and time data —65.015
.4	Partnership in firm	.532	Determination of production time
.6	Co-ownership	.56	Measurement of working time
.325	Pensions. Superannuation. Assurance schemes. Retirement benefits —331.25	562	Records of work completed
.36	Degree of employment of workforce Full use of capacity. Overemployment —331.024; 338.32	.2	Quality control Control of tool issue, materials, products etc.
38/ 39	Various other personnel matters. Working hours. Leave. Working conditions. Technical training. Industrial disputes. Strikes etc. 658.38/.39 $\approx$ 331.8/.9 — example at 658.8	.3	Control of operation. Production supervision.
		.5	Quality control and inspection —65.012.7
		.6	Control and inspection of materials
		.563	Control and inspection of work, operations, processes
		.566	Control and inspection of equipment, machinery
		.567	Control and inspection of products
658 5	PRODUCTION ENGINEERING AND PLANNING. DESIGN. PRODUCTION MANAGEMENT AND CONTROL —338.3; 66.012		Control of tool issue
.51	Organization of production	58	Control of materials issue
511	Production analyses	581	Treatment of wastes, residues, scrap.
.2	Product analysis	588	Utilization of wastes —Table I(i) 002.68, .002 8; 628 4 038; 628.477.6; 628.54
.3	Process analysis		Servicing and maintenance work —62-7; 621.797; 658.818 3
.4	Form, design analysis	658 6	Maintenance and care of machinery
.5	Analysis of means of production (machines, tools). Plant layout (manufacturing layout)		Damage. Preventive measures. Repairs —368.1; 614.8; 620.19
	Machine plotting	.62	COMMERCIAL SCIENCE AND PRACTICE GOODS. SERVICES —330.12
.8	Job instructions. Operational write-up		Goods. Merchandise. Wares. Products —620.2
.512	Production plan, schedule. Determination of sequence of operations (sequencing). Routeing		658.62(1-82) Goods according to source of supply —Table I(e)
.2	Designing. Shape, design, construction of products. Industrial design —7.05		(520-82) Goods from Japan. Japanese products
.3	Placing of production orders outside the firm		658 62.018 2 Quality products. Goods of high quality
.4	Subcontracting		.4 Bad, unserviceable products
.6	Preparation of production work		Goods of poor quality
	Distribution of work. Allocation of workload	.624	New products
	Work schedules and deadlines. Machine loading —331.87	.625	Old, used second-hand goods
.62	Deployment of labour force. Individual working. Group working. Working at more than one workplace or station	.626	Branded, proprietary goods
.513	Supervision of production work. Follow-up, progressing, expediting. Scheduling	.627	Dead stock. Sub-standard goods Job lots —658.849.4
.2	Materials schedule	.628	Range of products
.3	Operation schedule	.64	Services
.4	Time schedule	.69	Exchanges in kind (barter) —339.185; 347.452
.5	Machine schedule	658.7	BUYING. PURCHASING. PROCUREMENT. MANAGEMENT OF STOCK —64.03
.514	Execution of production work. Despatching		658.7.03 Purchase prices
.3	Distribution of work according to type of job		658.7.03 $\approx$ 658.8.03
.4	Distribution of work according to time allowed	.71	Purchasing policy and plans
.515	Assembly work. Assembling —621.757	711	Preparations for buying. Sources of supply.
.516	Standardization within the firm. Variety reduction —006	712	Analysis of requirements. Availability. Details of suppliers, products, services
.1	Standardization of products	.713	Purchasing and procurement policy
			Methods of procurement Purchase, leasing, hiring, exchange etc.

658.715	Inviting of quotations, tenders. Inquiries for price. Price analysis, comparison. Submission of tender. Contract	658.8.036.4	Tariffs according to category of consumer
.716	Centralized purchasing systems (in large firms, public administration etc.) Buying departments	.5	Tariffs for groups of consumers, purchasing associations, collectives etc.
.72	Purchasing methods	.6	Tariffs for special purposes. Tariffs according to nature of merchandise. Charges for dangerous, perishable goods etc.
.721	Contract purchasing	.7	Tariffs according to speed or promptness of delivery
.722	Direct purchasing, from manufacturer or producer	.8	Tariffs according to form or class of delivery. De luxe rate
.724	Indirect purchasing, through agent, factor, dealer	.9	Extra, incidental charges. Surcharges on tariffs
.74	Ordering	.038	Free supply (gratis, free of charge)
.75	Follow-up of orders (chasing)	.07	Sales departments
.77	Receipt of goods. Acceptance of delivery. Inspection. Checking of quality and quantity	Principal divisions	
.773	Invoice checking and control	658.81	Sales organization
.78	Stock and stores management. Warehousing. Despatch	.811	Sales management
	—621.796 and references there	.813	Processing of orders. Order books. Delivery notes. Invoices and invoicing
.782	Sorting and marking of stock		—657.352
.783	Stock on hand. Stock levels	.815	Supervision of order-handling. Filling, clearing of orders. Progressing of orders
.784	Stores of semi-finished and finished products (sales stock)	.817	Evaluation of sales results. Sales reports. Reporting of lost orders
	—657.422.6/.7	.818	Service to customer. After-sales service
.785	Stores of materials, supplies	.2	Customer advice. Consultancy (on choice of goods, services etc.)
.786	Handling, treatment of goods in store		—659.2
.787	Stock control. Stocktaking. Inventories. Stock records	.3	Maintenance and repair service. Servicing
	—657.356; 657.371		—658.58
.788	Despatch. Consignment. Forwarding of goods	.4	Settlement of claims and complaints
	—347.463; 656	.5	Exchange of goods
.4	Packing. Packaging. Labelling and marking. Loaned packaging. Returnable containers etc.	.6	Guarantee of taking back goods. Guarantee of refund
	—621.798 and references there	.82	Sales promotion
.48	Opening, emptying of containers. Unpacking of goods		—659.1
.5	Transport and delivery of consignments	.821	Promotional methods. Creation of demand. Combating of competition
	—658.286.4	.822	Sales equipment. Selling instructions
		.827	Presentation and packaging of goods. Display wrapping
658.8	MARKETING. SALES. SELLING. DISTRIBUTION		—621.798 and references there
	658.8:658.386 Training in sales and marketing	.84	Commercial channels. Various systems of selling. Sales methods
	(658.386 derives from 331.86)		—339.371
	658.8-051 Sales staff	.841	Immediate sale (goods on hand for immediate supply to purchaser)
	—051-055.2 Female sales staff	.2	Sale by self-service
Special auxiliary subdivisions		.4	Sale by automatic vending machines
	<i>The .0 auxiliaries listed at 65 are applicable here; .03 is further developed</i>		—681.138
658.8.011.1	Sales policy	.842	Sale by telephone
.012 1	Market research, surveys etc.	.843	Sale with easy payment schemes Deferred payment. Payment by instalment. Hire purchase. Pre-purchase savings schemes
.2	Sales planning		—658.882
.013	Sales psychology	.845	Sale by means of samples, pattern books. Sale using illustrated literature, catalogues etc. Sales at exhibitions. Sending on approval
02	Sales agreements and conditions		Selling by sales representatives, brokers, factors, agents, commercial travellers
	—347.451; 347.74/.75	.846	Other methods of selling
027	Delivery conditions in sales context	.849	Direct selling by manufacturer
	—339.18; 347.463	.2	—339.35
03	Selling prices and tariffs	.4	Occasional sales. Selling of job lots, bargain goods
031	Calculation of selling prices	.5	—339.375; 658.627
033	Rebates Discounts	.7	Second-hand trade. Junk business. Sale of used goods
	—658.881		—339.375; 655.425
035	Sales tariffs. Scales of charges	.85	Sale by auction. Sale by court order
	—656.031.5	.86/.87	Technique of selling. Salesmanship. Sales talk etc.
.2	Fixed or flat-rate tariffs. Payment of fixed unit price regardless of quantity consumed	.86	—659.144
3	Tariffs with progressive reduction of unit price		Distribution channels (wholesale, retail)
4	Proportional tariffs	.87	Wholesale selling. Wholesaling. Distributive selling
.5	Tariffs with progressive increase of unit price		—339.33/.34
.7	Tariffs with standing charge for minimum consumption and fixed price per unit of extra consumption		Retail selling. Retailing
036	Tariffs dependent on factors other than quantity consumed		—339.37
	658.8.036.2/.8 = 656.032.2/.8		
.2	Tariffs according to locality and distance		
.3	Tariffs according to time (e.g. peak and off-peak rates)		

658.88	Payments. Collection of money due. Credit management	659.113.7	Results and effectiveness of publicity. Effectiveness of medium and distribution.
.881	Cash payment. Discounts for cash payment (e.g. discount vouchers, trading stamps) —658.8.033	.8	Checking, monitoring of results
.882	Sale on account. Credit sales. Conditions for credit —336.77; 351.825; 658.843	.117	Management of advertising media. Supervision of various modes of publicity
.884	Debt collection. Issue of demands, due notices. Coercion	.1	Target audience of publicity. Advertising targets
.89	Purchasers as objects of sales effort. Prospective customers, clients	.3	Targets according to profession, occupation 659.117.1:614.23 Doctors as advertising targets
.891	Customers according to profession, occupation 658.891:614.23 Doctors as prospective customers	.118	Targets according to channel and type of demand 659.117.3:339.37 Retailers as advertising targets
.893	Customers according to channel and type of demand 658.893:339.37 Retailers as prospective customers	.12	Advertising tactics. Catching the attention. Informative advertising. Persuasion
		.121	Enticement, allurements. Authoritarian form
		.122	Obligation
658.9	OTHER COMMERCIAL ACTIVITIES 658.9:347.779.3 Commercial patent agencies	.123	Concept and design in advertising
.91	Letting. Rental. Hire. Leasing —339.187.6 658.91.02 Rental and leasing agreements. Terms of rental or lease .03 Rates of hire. Rental and leasing costs, tariffs	.125	Establishing of objectives
.97	Subscription arrangements. Continuous sale	.126	Formation and development of concepts, ideas. Conceptualization. Image, theme, motif etc.
		.127	Textual design and compilation Production of copy. Jingles, slogans, catchphrases etc. —659.131.2 659.123-051 Advertising copywriters
659	PUBLICITY. INFORMATION WORK. PUBLIC RELATIONS	.3	Pictorial design (except trademarks) Use of graphic art, photography etc. —659.131.3
		.4	Trade marks. Logos. House colours etc —347.771
659.1	PUBLICITY. ADVERTISING —06.048.2; 655.55; 658.82 659.1-051 Practitioners of publicity, advertising (e.g. at 659.123) 659.1.01 Publicity methods and methodology. Theory and practice of advertising .011.1 Advertising policy .4 Economic efficiency (cost-effectiveness) etc. of advertising .013 Psychology of advertising .03 Advertising rates, prices .07 Publicity departments. Advertising departments	.6	Forms of advertising, publicity
		13/ 16	Creation of trust, confidence in the company or advertiser
		13	Creation of demand. Creation of trust in the product or service Promotional offers
		131	Maintaining of confidence. Retention of customers, of brand loyalty
.11	Publicity campaigns, their execution. Advertising tactics. Target audience of publicity —659.441	.1	Publicity and advertising media
.111	Coverage and distribution of publicity	.2	Visual advertising media
.2	Methods of distribution. Hand-outs. Postal distribution. Help-yourself displays etc.	.3	Advertising in publications —050; 070.36; 070.485; 655 535 6
.3	Scope and coverage of publicity Degree of repetition. Duration of effect, impact Special advertising drives, campaigns, occasions	.4	Published advertisements in general
.113	Planning and management of publicity	.7	Published announcements
.2	Market research, surveys	.72	Textual matter in advertisements Content and style. Prose. Verse. Headlines Slogans etc. —659.123
.21	Sources of data. Statistics and their evaluation	.73	Pictorial matter in advertisements. Illustrations —659.125/.126
.22	Research by interviewing	.75	Make-up and technical details of advertisements. Size. Format. Layout
.23	Questions of competition	.8	Placing of advertisements (according to kind of publication)
.25	Research into consumer habits, demand, market trends etc.	.132	Advertisements in newspapers
.26	Presentation and evaluation of market analyses	.1	Advertisements in periodicals
.3	Publicity planning, organizational aspects. Coordination of production and sales volume	.2	Advertisements in books
.4	Determination of campaign territory	.21	Publicity in the general and editorial sections of publications. Articles, discussions, reports, reviews etc. Advertising features
.5	Forecasting, projections of results	.22	Publicity by means of one's own publications
.6	Execution of campaign. Estimates. Designs. Production of publicity material	.27	Publicity periodicals published by the firm. House journals. Customer magazines or bulletins
		.133	Prospectuses and other ephemeral publications
		.1	Explanatory and informative printed matter. Instruction booklets. Directions for use. Catalogues. Brochures etc. Printed advertising matter. Prospectuses. Leaflets. Handbills
			Inserts and enclosures (in other publications)
			Mail shots. Circulars. Letters. Trade cards
			Advertising by means of posters, placards, signs
			Bill-posting on fixed sites. Posters on pillars, hoardings, walls etc.

659.134	Mobile advertising media. Advertising using vehicles, sandwich-men etc.	659.153	Personal presentations. Fashion shows (with models, mannequins). Guided works tours —65.012.126; 65.012.67
.1	Advertising in public transport		
.2	Advertising on itinerant carriers. Sandwich-men. Special clothing for advertising	.154	Wrapping, packaging, decoration of goods for advertising purposes. Marking, identification —621.798 and references there; 659.126
.3	Advertising on land vehicles. Land vehicles as advertising devices	.157	Devices and systems for display of goods. Shop fittings etc.
.6	Advertising on ships, boats. Floating objects as advertising devices	.2	Glass cases. Showcases. Display cabinets etc.
.7	Advertising using balloons (captive or dirigible), aircraft, fireworks —659.138.6	.5	Display frames, trestles, stands, racks etc. (e.g. for shoes, hats)
.8	Flags, pennants for advertising. Devices on vehicles for distributing, scattering publicity material	.6	Adjustable supports and shelves. Wall brackets
.135	Publicity and advertising using light (and luminous effects) —628.973.2; 628.974.7	.8	Various shaped display devices. Clothes models. Busts. Articulated dummies. Fabric stands. Others
.1	Continuously illuminated signs	.158	Shop-window display. Window dressing
.2	Intermittently illuminated signs. Flashing signs	.2	Eye-catching devices
.3	Advertisements projected on to screens, ground, clouds etc. —659.137	.3	Window dressing. Window display equipment
.4	Movable shades and screens for advertising	.4	Decorative materials (e.g. papers, fabrics, grass matting, cork chippings)
.9	Self-luminous or luminescent materials in advertising	.6	Advertising matter on the window pane. Transfers, stickers etc.
.136	Various mechanisms for visual advertising	.16	Promotion methods with free gifts, premiums, discounts etc.
.1	Advertising on particular objects (e.g. on matchboxes, items of furniture)	.162	Free gifts (not the product) for publicity purposes. Advertising calendars. Others —659.136.2
.2	Advertising on calendars —659.162	.163	Free samples of the product
.3	Advertising on menu holders and similar frames and stands	.164	Promotional bonuses, premiums
.4	Advertising on revolving displays, discs, leaves etc.	.166	Promotional discounts, rebates, price reductions
.7	Advertising on other mechanisms. On prisms, panels, slats or louvres (showing one face at a time). Advertising toys, novelties. Viewers. Others	.167	Sales, especially clearance sales, as promotional method
.137	Advertising using silent film and slides —659.135.3; 659.148	.168	Competitions, contests as promotional method
.1	Cinema advertisements in general	.18	Advertising and publicity according to kind of originator
.2	Advertising using silent cine film	.181	Collective, group advertising. Communal publicity
.5	Advertising using slides, diapositives	.182	Advertising and publicity by authors and inventors
.138	Special devices for attracting attention	.183	Advertising and publicity by manufacturers, producers
.4	Devices for printing advertisements on paved surfaces	.184	Advertising and publicity by traders, dealers
.5	Automatic sign-writing, message-relaying devices (electric bulletin boards etc.)	.185	Advertising and publicity by craftsmen, artisans
.6	Advertising by aeronautical means. Use of aircraft for publicity (e.g. towing banners, dropping leaflets). Skywriting (using vapour trail). Other aerial stunts —656.052.59; 656.7; 659.134.7	.186	Advertising and publicity by consumers, customers
7	Monuments, statues for advertising	.187	Advertising and publicity by professional promoters (advertising agents, publicists)
8	Scenes, tableaux, puppets etc for advertising	659.2	INFORMATION WORK. ADVISORY AND CONSULTANCY SERVICES
.14	Auditory, acoustic advertising media		—002; 06.058; 061.66; 658.818.2
144	Direct oral, spoken publicity. The human voice as means of advertising, announcing etc. Sales talk, barkers, town criers etc. —659.151; 658.85		659.2:061.1 Official, government advisory services
145	Indirect oral publicity. Broadcast and recorded advertisements, announcements etc. Talks. Radio drama. Newscasts. Advertisers' announcements (commercials). Music, song	.21	:061.2 Private advisory services
148	Combined optical and acoustic media. Audio-visual publicity. Advertising and publicity using sound film and television —659.137	.22	Technique of information work
.15	Advertising and publicity by demonstration and exhibition	.23	Technique of consultancy and advising
.151	Demonstrations of the use of a product —659.144	.231	Business and commercial intelligence, information. Business consultancy
.152	Trade exhibitions. Exhibitions for publicity purposes —061.4	.235	Economic intelligence and advice —658.8.012.1
		.24	Management consultancy and business information. Advice on business management and organization —658
		.25	Technical information and consultancy 659.24:621.3 Information and consultancy in electrical engineering
		.27	Information and consultancy in sciences and pure studies
		.28	659.25:39 Information and consultancy in ethnology and ethnography
			Information about persons in general
			Inquiries for information. Requests for consultation

659 28 (cont'd)	659.28 $\approx$ 659.2	659.441 1	Approach, scope and duration in public relations
659.3	MASS COMMUNICATION. INFORMING, ENLIGHTENING OF THE PUBLIC AT LARGE	.3	Planning, sources, effectiveness, impact of public relations
	—001.92; 374.7	.8	Tactics in public relations
		.442	Concept and design in public relations. Execution
659.4	PUBLIC RELATIONS (PR)		—659.12
	—06.048.2; 32.019.5; 354.36	.443/.446	Public relations media
42	Public relations according to source or initiating agency	.443	Visual public relations media
.43	Public relations according to purpose or target audience	.444	Auditory, acoustic public relations media
.441	Strategy and tactics in public relations	445	Public relations by demonstration and exhibition
	—659.11	.446	Public relations methods with free gifts etc

66 CHEMICAL TECHNOLOGY. CHEMICAL AND RELATED INDUSTRIES

—54; 550.4; 550.84; 577.1; 621.794; 623.459; 631.4		66-94	Direction, velocity, rate, duration of processes etc.
Special auxiliary subdivisions		-942	Parallel processes
<i>The special auxiliaries -2/-9 (not -1) listed under 62 are also applicable in 66, except for -3 under 661.185 and 662.2. -9 is further developed here. For -1, see specific sections 661.725-11/-12; 661.8-11/-18; 664.71-11/-12; 666.3-1; 666.9-1; 667-12; 669-1; 669.15-192/-198; 669.35-191/-193</i>		-944	Opposed, reversed processes. Counterflow processes
66-2 Fixed and movable components of machines etc. in chemical technology		-946.1	Processes without agitation
-4 State, condition, form of materials etc. in chemical technology		.3	Processes with agitation
-5 Operation and control of machines and processes in chemical technology		-947.1	Very rapid
-6 Chemical machinery etc. according to fuels, heat sources		.2	Rapid
-7 Servicing, maintenance, protection of chemical machinery etc.		.3	Accelerated
-8 Machines etc. according to motive power, propulsive force. Source of energy of chemical machinery		.5	Brief. Short duration
-9 Process and plant operating characteristics		-948.1	Slow
-91 State of material (characteristics and variables)		.2	Prolonged. Extended
-911 State of aggregation		.3	Retarded. Delayed
—62-403/-405		.5	Lengthy. Long-lasting
66-911.3/.6 ≈ 54-13/-16, e.g.		-95	Simple and multiple processes. Single-stage and multi-stage processes
66-911.3 Gaseous state (from 54-13)		-951	Simple, simplified processes
.4 Liquid (from 54-14)		-952	Multiple, complex, repeated processes
.45 Solutions		-953	Single-stage processes
.48 Colloidal state with liquid continuous phase.		-954	Multi-stage processes
Suspensions. Emulsions. Sols.		-956	Single-bath processes
Gels. Foams		-957	Multi-bath processes
.6 Solid (from 54-16)		-96	Processes associated with purification and refining
.61 Amorphous		-962	Processes without purification or refining
.62 Crystalline		-963	Processes with purification or refining
-912 Processes in the fluidized state		-965	Particulars of processes according to the form or condition of the material to be treated
-913 State of humidity		.1	Loose. Flocculent. In the form of flakes
1 Dry		.2	Coiled. In a coil
.2 Damp Humid. Moist		.3	In a hank or skein
.3 Wet		.4	As ribbon or tape
-914 Concentration characteristics		.61	Stressed. Under tension
—66.082		.62	Not stressed. Not under tension. Slack. Limp
.3 Low concentration. Dilute		.81	Open. Uncovered
5 Medium concentration		.82	Closed. Covered
.7 High concentration. Concentrated		-966	Processes according to durability (permanence, fastness)
-915 pH value		.1	Durable (e.g. wash-resistant)
—541.132.3		.2	Not durable
1 Acid		.5	Fast (colourfast)
2 Neutral		-967	Processes according to liquor ratio
3 Alkaline		.1	Low liquor ratio
-916 rH value		2	Medium liquor ratio
1 Oxidizing		3	High liquor ratio
2 Reducing		-97	Thermal characteristics. Temperature.
-93 Processes, machines and equipment according to mode of working, continuity, associations, media			Temperature range
-932 According to continuity		-971	<i>Denote specific scale and value by abbreviation and figure, following an asterisk (— Table I(h)), e.g.</i>
2 Continuous		.2	66-97°C0 Freezing point of water
3 Semi-continuous		.4	*F32 = 0°C = 32°F = 273K
4 Discontinuous		-973	*K273
-936 Processes according to ambient or phase conditions		-974	66-97°C100 Boiling point of water
1 Processes in the dry		-975	*F212 = 100°C = 212°F =
2 Processes in the wet		-976	*K373 373K
.3 Reactions between gases and vapours		-977	Thermodynamic characteristics
.4 Reactions between gases and liquids		-978	Exothermic
.5 Reactions between liquids		-98	Endothermic
6 Reactions between gases and solids		-982	Very low temperature
.7 Reactions between liquids and solids		-983	Low temperature
8 Reactions between solids		-984	Room temperature
		-985	Medium, moderate temperature
		-986	High temperature
		-987	Very high, extremely high temperature
		-988	Pressure. Pressure range
			—66.083
			Vacuum. In vacuo
			Very low pressure
			Low pressure
			Atmospheric pressure. Normal pressure
			Medium, moderate pressure
			High pressure. Hyperbaric
			Very high, extremely high pressure

66.0	CHEMICAL ENGINEERING. CHEMICAL PRODUCTION, PROCESSING, OPERATIONS, PLANT	66.022.392	Additives affecting organoleptic reactions (smell, taste, texture) —543.92
.01	Chemical engineering and processing principles. Process design and control. Plant layout and services. Materials, properties etc.	.393	Denaturation
		.4	Impregnation
.011	Process design (principles and practice, flow charts, new features in processing and plant etc.)	.023	Containers, vessels for chemical reactions
		2	Ordinary chemical reaction vessels. Vats
.012	Production and process control, regulation, supervision. Efficiency. Output. Chemical engineering economics —658.5; 669.162.27	.3	Towers. Carboys
	66.012-52 Automatic process control	.6	Lining, coating, cladding of vessels. Devices for improving fluid distribution. Raschig rings etc.
.1	Measurement. Control. Instrumentation —53; 681.2	.7	Acid-resistant vessels
.2	Consumption of materials (Raw materials. Auxiliary materials, e.g. fuels)	.025	Vessels resistant to other chemical actions
.3	Consumption of energy. Heat consumption. Power consumption	.026	Fittings for vessels. Closures. Lids. Seals. Manholes. Inspection ports (windows). Connections for instruments. Inlets. Outlets —621.183; 621.64
.4	Capacity. Throughput	.6	Pipes. Conduits. Packings —62-762; 621.64
.45	Preparatory work. Duration	.7	Acid-resistant pipework
.46	Throughput. Rate and duration	.028	Pipework resistant to other chemical actions
.47	Duration of discharging operations. Duration of finishing	.03	Introduction of materials. Control of feed rate. Proportioning. Metering. Dosing
.48	Total production of plant over a long period (e.g. annual production)		Materials, processes and equipment for specific industries
.492	Length of production runs (e.g. furnace campaign)	.04	<i>Further developed under direct subdivisions 661/669</i>
.5	Yield. Output		Heat-treatment operations. Thermal processes
.7	Process efficiency. Productivity. Chemical engineering economics	.040	—621.78
.013	Chemical works generally. Chemical factories. Plant. Equipment. Auxiliary services —658.2; 725.4	2	Heat treatment according to physical state
.5	Plant layout, design and construction —66.02	26	Phase changes —536.42
.6	Power supply (generation, mains supply etc.) —620.4; 621.039.577; 621.311; 658.26	27	Heat treatment in the solid phase —66.046.4
.7	Chemical processing services. Water, steam and gas supply and installations —621.1; 628.1; 661.9; 662.76	3	Phase change solid to liquid
.8	Industrial hygiene. Sanitation. Other accessory services —613.6; 614.8	36	Phase change solid to gas —66.049.6
.014	Chemical composition	37	Heat treatment in the liquid phase —66.046.6
.017	Materials and their properties —620.1/.2	.4	Phase change liquid to solid
.018	Resistance of materials to external effects and actions 66.018 = 669.018	.46	Phase change liquid to gas
.02	Processing operations and plant generally	.47	Heat treatment in the gaseous phase —66.046.9
.021	Unit operations and processes generally	.041	Phase change gas to solid
2	Momentum transfer. Fluid flow and mixing		Phase change gas to liquid
.3	Mass transfer		Furnaces. Ovens. Kilns —621.365; 621.733; 621.745.3; 621.783; 683.9
.4	Heat transfer	1	66.041-6 Furnaces according to fuels, heat sources -69 Heating mechanisms and controls 66.041-69 = 662.9 -982 Vacuum furnaces -987 High-pressure furnaces
.022	Preparation of raw materials (methods, plant, equipment) —621.7; 621.9; 622.7 66.022:621.926 Comminution of raw materials. Comminuting plant	2	Preliminary processes. Preparation of materials. Preheating
.2	Pretreatment without additives	3	Generalities on furnaces. Furnace atmospheres. Heating and cooling of furnaces
.3	Pretreatment with additives —678.04	.34	Heating methods. Types of firing —662.92
.32	Bulking materials. Extenders, fillers etc.	.35	Externally heated furnaces
.33	Additives affecting colour (colorants, decolorants etc.)	.36	Internally heated furnaces. Flues etc. for internal heating
.34	Additives affecting hygroscopicity (humectants, desiccants etc.)	.37	Furnaces with heating gas passing through the charge
.35	Additives affecting solubility	.38	Furnaces with direct contact between charge and heat-exchange liquid
.37	Additives affecting stability and reactivity (activators, sensitizers, passivators etc.) —66.063.67; 66.081; 66.094.38; 66.097; 667.629.4	.4	Electric furnaces —621.365
.38	Additives affecting physical properties <i>Details by .53...</i>	.41	Discontinuous furnaces. Batch furnaces. Single-charge kilns etc.
.39	Additives affecting biological properties	.43	Furnaces with open vessels for the charge (pots, cauldrons, crucibles)
		.435	Reverberatory furnaces. Open-hearth furnaces
			Regenerative furnaces. Recuperative furnaces

66.041.44	Shaft furnaces with single charge. Cupola furnaces	66.042.886	Regenerators
.453	Drying ovens (drying stoves)	.043	—66.045
	—66.047	.1	Constructional materials for furnaces etc.
.454	Single-charge tube furnaces. Oven-type (semi-muffle) furnaces	.2	Fire-resistant, refractory materials. Furnace linings in general
.455	Muffle furnaces	.3	—666.76
.456	Single-charge crucible furnaces	.4	Heat insulation (thermal insulating) materials
.46	Single-charge retorts	.5	—662.998
.47	Single-charge heating chambers. Beehive furnaces	.7	Heat-retaining (thermal storage) materials
.48	Single-charge drying kilns	.044	Heat-transferring (conducting and radiating) materials
.49	Single-charge rotary furnaces. Tilting, tipping furnaces. Rocking furnaces	.22	Furnace materials according to chemical properties. Basic, alkaline or acidic materials
.498	Converters	.24	Furnace materials resistant to exhaust or flue-gases
	—669.184	.28	Repair of furnaces etc. Patching, relining
.5	Continuous furnaces, kilns etc.	.045	Manual repair, patching etc.
.53	Continuous shaft furnaces. Blast furnaces	.2	Mechanical repair. Use of gunite (shotcrete) machines
	—669.162.2	.3	Repair and relining materials. Patching material, ganister
.531	With high shaft	.5	Heat transfer. Heat exchange. Cooling. Cooling plant etc.
.532	With low shaft		—66.042.886; 66.046
.54	Continuous vertical or steeply inclined furnaces (except blast furnaces). Continuous tube furnaces. Continuous retorts. Continuous chamber furnaces. Continuous crucible furnaces	.046	<i>Denote shape of passage or surface by -4 (from 62-4)</i>
.55	Tunnel furnaces. Tunnel kilns	.1	Heat transfer and temperature regulation
.56	Furnaces with mechanical propulsion. Cascade furnaces	.3	Heat insulation, storage and transfer media
.57	Rotary tube furnaces	.5	66.045.3 ≈ 66.043
.58	Furnaces with pneumatic, mechanical or other feed for charge	.6	Cooling. Coolers. Cooling towers
.6	Intermittently operated furnaces, kilns etc.	.7	—66.046.3; 66.048.2
.64	Annular or ring furnaces	.046	Spray ponds
.65	Rack, tray and shelf furnaces. Storey furnaces	.1	Gas humidification and cooling
.67	Intermittent chamber furnaces	.3	Thermal processes and plant
.042	Ancillary equipment for furnaces etc.	.4	—66.045
.1	Charging devices	.41	Preliminary treatment using heat. Preheating
.15	Combined charging and discharging devices	.42	Processes using cold. Cooling, chilling, freezing etc.
.17	Devices for mechanical charging	.44	—621.56/.57; 66.045.5; 664.8.037
.18	Charging by hand	.46	Heating of solids. Baking. Burning. Firing
.2	Devices for handling and distributing the charge	.5	Calcination. Roasting
	—621.86/.87	.51	<i>E.g. under 669</i>
.21	Crucibles	.52	—622.78; 66.040.2
	—666.76	.53	Roasting without oxidizing or reducing agents. Calcination
.22	Protective vessels. Saggars (seggars)	.54	Roasting with oxidation
.26	Transfer devices, conveyors	.55	Heating with simultaneous sintering. Sinter roasting
.27	Devices for ensuring even distribution of the charge. Compression, ramming, tapping devices. Distributors. Equalizers. Levellers	.56	Heating with simultaneous reduction
.28	Devices for preventing too rapid progression of the charge. Retaining, retarding devices	.57	Fusion. Melting. Smelting
.3	Air, steam and gas supply Draught, induction. Blast action	.58	<i>E.g. under 669</i>
	—662.92	.59	Generalities. Charging. Starting up. Melting process. Melting period. Skimming of dross or slag. Leaving to stand. Alloying. Alloying time. Degassing the melt. Tapping
.4	Closing devices for furnaces etc	.6	Additions, e.g. fluxes
.5	Discharging devices for solid materials	.7	Melt vessels. Melting hearths
.56	Precautions against oxidation of product (at discharge)	.8	Oxidation during melting. Refining
.57	Cooling of product (at discharge)	.9	—66.094.3
.6	Discharging devices for liquid materials	.047	Deoxidation during melting (particularly metal refining processes)
.7	Discharging devices for gaseous materials		Carburization
.8	Fixed parts of furnaces etc		Decarburization
.81	Combustion chamber separate from gas generator. Combustion chambers for distilling plant		Slag: formation and properties
.82	Combustion chamber integral with gas generator		—662.613.12; 669.015.8
.83	Fire grates		Other matters. Ash. Wastes. Residues
	—662.932		Heat treatment of liquids without phase change
.84	Hearths		—66.040.3; 66.049
.85	Furnace walls. Shell		Heating to boiling point. Boiling (ebullition) in general. Boiling without distillation or concentration
.86	Ash removal. Ashpits. Clearing of clinker, slag		—66.048/.049
	—662.932.1		Heating under pressure. Autoclaving
.87	Furnace roof, crown		Heat treatment of gases and gaseous mixtures
.882	Recuperators		—66.040.4; 66.07
			Industrial drying
			—66.041.453; 66.093.6
			Drying with air or other gases. Heating of air

66 047.2	Drying with reduced air pressure. Vacuum drying. Freeze drying	66.063.6	Preparation of dispersions
.3	Drying at high temperatures. Drying by heat alone. Evaporative driers	.61	Emulsification. Emulsifying agents —667.629.5
.4	Batch drying 66.047.41/.43 $\approx$ 66.047.1/.3	.62	Preparation of suspensions. Dispersing agents for suspensions
.5	Continuous drying 66.047.51/.53 $\approx$ 66.047.1/.3	.67	Stabilization of dispersions. Stabilizing agents —66.022.37; 667.629.4
.54	Drying in vertical shafts or inclined tunnels. Vertical driers. Drying towers. Drying pipes	.7	Mixing and kneading of plastic substances —621.929; 678.023.3
.55	Drying in horizontal tunnels	.72	Softeners, plasticizers and their use —667.621.7; 678.049.1
.56	Tray driers. Cascade driers	8	Agitation of liquids. Homogenization. Stirring devices
.57	Rotary driers. Driers with stock passing within revolving drum. Cylinder driers	86	Mixing and homogenization by aeration (introduction of gases). Aerating devices —66.069.82
58	Roller driers. Driers with stock passing over outside of revolving drum	.93	Dilution. Thinning. Diluents —66.082.4; 66.097.66; 667.629.2
.6	Intermittent drying 66.047.61/.63 $\approx$ 66.047.1/.3	94	Viscidization. Thickening. Increasing the viscosity. Thickening agents —66.065.7
.7	Drying according to state of material	.064	Dialysis. Dialysers
.71	Drying of material in large lumps, chunks	.065	Solidification. Precipitation. Crystallization. Inspissation
.75	Drying of pulverous materials, powders	.2	Precipitation in general. Flocculation —66.087
.79	Drying of liquids, solutions, suspensions —66.049.2	.3	Processes for decreasing the solubility. Salting out. Cooling. Heating
.8	Drying by chemical or colloid-chemical processes (e.g. using hygroscopic substances, desiccants) —66.022.34; 667.629.3	.5	Crystallization by concentration. Crystallizers
.048	Distillation	.7	Recrystallization. Coating —66.049.2
.1	Simple distillation. Elementary processes	—	Mixing of liquids with other substances to obtain a solid or semisolid mass —66.063.94
.2	Condensation in general. Condensers —66.045.5	8	Boiling down. Inspissation. Condensing of liquids —66.082.2
.3	Fractional distillation. Fractionation —663.55; 665.63	066	Clarification. Decantation. Separation of liquids. Sedimentation. Screening
.36	Dephlegmators	1	Clarification by addition, e.g. of albumin
.4	Complete distillation followed by fractional condensation	2	Decantation for separating liquids from solids
.5	Distillation and evaporation with reduced air pressure. Vacuum distillation. Vacuum evaporation	.3	Separation of immiscible liquids. Separation by coagulation. Curdling
6	Distillation using auxiliary media. Steam distillation. Azeotropic distillation. Extractive distillation	.4	Separation of liquids by centrifugal force
.7	Distillation under pressure. Fractionation under pressure	.5	Centrifuging —621.928.3; 66.067.5
.8	Molecular distillation	.6	Electrical separation of liquids —66.087
.9	Products and stages of distillation. Distillates	.7	Demulsification. Other separation processes
.049	Fractions. Residues	.7	Sedimentation (settling). Sedimentation tanks —628.163; 628.334.5
.2	Other thermal processes for phase separation	.8	Devices and processes for preventing foam formation (frothing) —66.069.85
.3	Separation or recovery of solid substances by evaporation of solutions —66.047.79; 66.065.5	.067	Refining and purification in general
.4	Recovery of two or more liquid phases by distillation. Methods of separating the phases	.1	Filtration. Filtration media
.5	Separation of phases by partial fusion. Liquation. Zone melting	3	Filtration equipment —621.928
.6	Thermal separation of (non-metallic) solid and liquid phases. Sweating	31	Paper filters. Filter funnels
.6	Sublimation processes. Recovery of sublimates —66.040.27	32	Filters with other media. Filters with granular, fibrous, viscous, clay medium. Filters with rigid screens, strainers, gauzes.
.7	Volatilization of non-metallic phase (from metallic)	33	Carbonaceous filters (e.g. charcoal filters)
.05	Special processes and equipment Further developed under direct subdivisions 661/669	.34	Fabric, textile filters. Filter cloths. Filter bags
.06	Handling, processing and purification of liquids. Treatment with liquids —621.64; 66.045/.049	.35	Drum filters
.061	Solution. Extraction. Solvents —667.629.2	.36	Centrifugal filters
.1	Solution (dissolving) in general	.37	Filters of special shape. Tubular filters.
.3	Extraction (selective solution)	.38	Candle and cartridge filters. Dish or plate filters
.34	Extraction from solids. Leaching	.4	Special-purpose filters. Filters for pumps and pipelines. Filters for viscous or molten materials
.35	Extraction from liquids	.43	Ultra-filters. Ultra-filtration
.38	Recovery of solvent	.5	Filter presses —621.979.6
.063	Mixing of liquids. Dilution. Homogenization	.5	Filtration media for filter presses
.2	Diffusion mixing		Centrifuging —621.928.3; 66.066.4
.4	Maceration. Steeping. Soaking		
.5	Wetting. Moistening. Wetting agents —661.185; 667.629.5; 678.049.7		

66.067.8	Other refining and purification processes.	66.074.512	Passage of gases and vapours through a liquid. Spray and trickle washers
	Desliming. Chemical purification. Purification by absorption	.513	Fillers, packing for wash towers
.068	Pressing. Expression, expulsion	.6	Dry purification of gases, in general
	66.068 $\approx$ 621.979.6	.7	Purification of gases with adsorbents (e.g. activated carbon, silica gel)
.069	Other processes involving liquids		—66.071.7; 66.081
.1	Washing in general	.8	Purification of gases by thermal processes or pressure changes. Heating, freezing, compression, rarefaction
	—66.074.5		—66.04; 66.077/.078
.82	Treatment of liquids with gases	.9	Accessories for gas purification
	—66.063.86; 66.074.4	.92	Screens, baffle plates etc. for gas washers and scrubbers
.83	Atomization of liquids		Carburation. Carburation media. Various additions to gas
	—621.647	.075	66.075 $\approx$ 662.76.075
.84	Degassing (de-aeration) of liquids	.076	Storage of gases. Gasholders
	—66.083.8		—621.642; 66.073.2
.85	Foam formation. Frothing	.2	Gasholders with liquid seal. Wet gasholders. Floating gasholders
	—66.066.8; 661.185.7	.32	Telescopic gasholders
.88	Combined treatment with gases and liquids	.34	Spirally guided gasholders
.07	Handling and processing of gases	.4	Waterless gasholders. Dry gasholders with variable volume
	—621.6.02; 66.046.9	.5	Metal gas containers. Gas bottles. Gas cylinders
.071	Gas production. Gas generation	.6	Rubber gas containers (gas envelopes, balloons)
	—662.76	.7	Gas containers with absorbent fillings
.2	Continuous gas production	.8	Movable and portable gas containers
.3	Intermittent gas production	.077	Rarefaction of gases
.6	Gas separation by diffusion		—621.5/.6; 66.074.8; 66.083.4
.7	Gas separation by adsorption and absorption	.078	Compression and liquefaction of gases
	—66.074.7		—533.24; 621.5/.6; 66.074.8; 66.083.2; 661.91
.8	Generation of smokes, mists etc.	.2	Mechanical compression of gases
.073	Gas collection, supply, transfer	.4	Thermal compression of gases
.2	Storage, supply and distribution of gases.	.5	Compressed-gas generators. Regulating devices
	Taps, cocks, valves. Leakage prevention etc.	08	Physical and physicochemical processes
	—621.646		—664.8.039
.3	Continuous gas supply. Gas mains Gas pipelines	081	Physicochemical processes (e.g. stabilization and sorption processes). Adsorption.
.5	Intermittent gas supply. Distribution of gas in containers		Adsorbents
.7	Mixing of gases	.082	—66.022.37; 66.074.7
.8	Humidification of gases	.2	Processes affecting concentration level
.074	Cleaning, purification of gases. Drying of gases. Solution of gases	.3	—66-914
	—621.359.4; 669.162.252	.4	Concentration
.1	Separation of liquids from gases		—621.928.44; 66.065.8
.2	Mechanical separation of impurities.	083	Maintaining uniform concentration
	Mechanical cleaning of gases		Dilution
	—621.928.9		—66.063.93
.3	Removal of various substances from gases	.2	Processes involving pressure
.31	Removal of water from gases Drying of gases, in general		—66-98
	—66.047; 66.093.6	.082	Pressure-increasing processes. Pressurizing.
.32	Separation, removal of nitrous gases (from gases)	.2	Compression
.33	Separation, removal of carbon gases (carbon oxides, carbonic acid) from gases	.3	—66.078
34	Separation, removal of ammonia and other bases (from gases)	.4	Maintaining uniform pressure
35	Separation, removal of oxygen (from gases)	083	Pressure-reducing processes.
36	Separation, removal of hydrogen (from gases)		Decompression. Rarefaction
37	Separation, removal of sulphur compounds (from gases)	.2	—66.077
38	Separation, removal of hydrocarbons from gases (e.g. tar, benzoles)	.8	Degassing of materials in vacuo
391	Separation, removal of acidic gases in general (from gases)		—66.069.84
395	Separation, removal of cyanogen and hydrocyanic acid (from gases)	084	Processes involving vibrations (e.g. ultrasonic processes)
396	Separation, removal of halogens (from gases)		—534.29
4	Solution (dissolution) of gases in saturation vessels etc. (including extraction of solid products)	085	Processes involving irradiation.
	—66.069.82		Photochemical processes
41	Introduction of gases into saturation vessels etc.	.1	Long-wave radiation. Infra-red radiation
.43	Solvent liquids for gases (properties, condition)	.2	Visible radiation. Light
.44	Circulation of solvent liquid	.3	Short-wave radiation. Ultraviolet radiation.
.46	Separation of products from the gas		Roentgen radiation (X-rays). Gamma radiation
.48	Treatment of waste or effluent gases	.5	—621.386 and references there
.5	Cleaning, purification of gases by washing		Corpuscular radiation. Alpha, beta and neutron radiation
	—66.069.1; 662.963		
.511	Washers, scrubbers for gases		

66.087	Electrochemical processes. Electrolysis.	66.094.4	Halogenation. Dehalogenation
	Electrodeposition. Electrocapillarity.	.41	Addition of halogens
	Electroprecipitation. Electroendosmosis	.42	Hydrogen exchange
	(electro- osmosis). Electrodialysis	.43	Mutual substitution of different halogens
	—621.357/.359; 66.066.5	.44	Replacement of oxygen-containing groups by halogens
.088	Reactions with the aid of electric discharges (e.g. ozone formation)	.45	Introduction of haloid acids
.09	Specific chemical processes. Synthesis.	.46	Separation of haloid acids
	Decomposition, addition and substitution processes. Catalysis	.47	Dehalogenation. Replacement of halogen atoms by hydrogen atoms
.091	Synthesis. Synthesising processes in general	.48	Syntheses based on replacement of halogens by metals
.5	Pyrosynthesis	49	Other halogenation and dehalogenation processes
.092	Decomposition. Cracking	.5	Introduction and removal of semi-metals and non-metals
.1	Decomposition in general. Cracking without catalysts	.512	Introduction of semi-metals and non-metals, in general
.12	Decomposition of liquids. Cracking in the liquid or heterogeneous state	.517	Removal of semi-metals and non-metals, in general
.14	Decomposition of gases. Cracking in the gaseous or vapour state	.522	Introduction of sulphur
.165	Discontinuous decomposition	.524	Introduction of concentrated sulphuric acid etc. Sulphation. Sulphonation Sulphoxidation etc.
.166	Continuous decomposition	.525	Introduction of concentrated sulphurous acid
.17	Decomposition at low pressure	.527	Removal of sulphur
.18	Decomposition at high pressure	.528	Introduction and removal of selenium, of tellurium
.19	Decomposition other than by distillation. Decomposition by active radiation.	.53	Introduction and removal of phosphorus, arsenic, antimony
	Decomposition by mechanical processes	.55	Introduction and removal of boron
	Electrocatalytic cracking	.58	Introduction and removal of silicon, of germanium
.2	Preliminary processes for decomposition. Preheating	.6	Acidification. Treatment with acids, in general
4	Decomposition with reagents and with catalysts. Catalytic decomposition	.7	Alkalization. Basification. Treatment with bases, in general
.41	Various types of catalytic decomposition	.8	Neutralization. Removal of acids or bases.
	66.092.412/.418 ≈ 66.092.12/.18	92	Deacidification. Debasification
.5	Decomposition with reduction (e.g. using hydrogen. Hydrogenation)	94	Introduction of complex metallic groups
	—66.094.1	.095	—66.095.7
.7	Decomposition using solvents		Anion exchange treatment. Base exchange treatment
.8	Subsequent and auxiliary operations. Special processes		Various processes. Special organic chemical processes
.81	Cracking to obtain analogous products with modified properties. Refining. Reforming	.1	Acylation Esterification. Preparation of acid amides
	—665.64/.65	.11	Acylation. Introduction of acetyl, benzoyl groups etc. Preparation of acid amides
.89	Cracking to coke. Coking	.12	Preparation of acetals from aldehydes or ketones
.9	Various destructive processes. Distillation with zinc dust. Destructive oxidation. Alkali fusion. Oxidizing alkali fusion	.13	Preparation of esters from acids and alcohols, halogen compounds and silver salts.
.093	Reactions and treatment with water. Addition and extraction of water	.14	Esterification
.2	Humidification. Moistening	.17	Ether preparation
.3	Steam treatment	.18	Salt formation
.4	Hydration	.192	Urethane formation (especially from carbamic acid derivatives)
.6	Dehydration		Saponification. Isolation of unsaponifiable matter
	—66.047	.21	—66.1.187.033
.62	Mechanical dehydration	.22	Isomerization
	—621.928.3; 66.068	.23	Benzidine transformation
.63	Physical dehydration	.252	Beckmann transformation
.64	Chemical dehydration	.253	Cyclization
.8	Hydrolysis	.254	Alkylation. Formation of onium compounds
094	Treatment with other agents	.26	Dealkylation
.1	Reduction in general. Hydrogenation	.27	Polymerization
	—66.092.5	.3	Depolymerization
.12	Reduction at normal pressure	.5	Condensation
.14	Reduction at high pressure	.51	Addition. Additive reactions
.16	Partial hydrogenation	.52	Addition of oxygen for preparation of oxidation products of olefins
.17	Catalytic hydrogenation	.6	Addition of hydroxyl groups. Preparation of glycols from olefins
.18	Dehydrogenation. Catalytic dehydrogenation	.7	Various syntheses from acids and salts.
.19	Hydrogen transfer. Catalytic hydrogen transfer		Synthesis of ketones, hydrocarbons, carboxy compounds. Reimer-Tiemann synthesis
.2	Other reduction processes		Reactions involving organometallic compounds. Grignard reactions
.22	Reduction using charcoal, coke and other substances with high carbon content		—66.094.92
.23	Reduction using metals, in general		
.3	Oxidation		
	—66.046.54		
.34	Oxidation by air current		
.35	Ozonization		
.36	Treatment with peroxides		
.37	Catalytic oxidation		
.38	Retarded oxidation. Anti-oxidation		
	—66.022.37; 678.048		

66.095.81	Nitration
.82	Nitrosation
.83	Amination. Diazotization
.85	Sandmeyer and Gattermann reactions
.86	Coupling
.87	Denitration
.91	Introduction of solubilizing groups, in general
.096.1	Treatment with inert gases (rare gases)
.2	Treatment with carbonic acid (carbon dioxide) and with carbonic-acid-forming compounds. Carbonation
.5	Fluidization in general
.097	Catalytic processes. Catalysts. Catalyst carriers —66.022.37; 678.044
.1	Types of catalysis. Homogeneous, heterogeneous, colloidal catalysis
.3	Catalysts. Contact poisons
.38	Regeneration
.4	Activators
.5	Catalyst vehicles, carriers, media
.6	Stabilized catalysts
.63	Promoters of stabilizers
.66	Diluents —66.063.93
.7	Substances for inhibiting or arresting catalysis. Catalyst paralyzers
.8	Negative catalysis. Inhibition. Inhibitors. Retarders. Reaction stabilizers
.098	Biological processes —57.08; 663.1
.099	Final operations. Finishing processes
.2	Granulation —62-492.3; 621.775
.4	Preservation. Conservation
.5	Treatment with powders. Dusting etc.
.6	Colouring of products. Dyeing, staining etc
.72	Decolorizing of products. Blanching, bleaching etc.
.73	Deodorizing of products —628.52

Principal divisions

661	CHEMICAL PRODUCTS —662/669; 678 <i>Denote individual inorganic and organic constituents by :546 and :547</i>
661.1	SPECIAL CHEMICAL INDUSTRIES
.12	Pharmaceutical products —615
.13	Chemicals for the electrotechnical industry —621.35
.14	Photochemical materials (other than plates, films, papers) —77, esp. 771.7
.143	Luminescent and phosphorescent materials
.18	Colloids Surface-active agents. Washing, foaming, flotation agents etc. 661.18 05 Special production processes and equipment. Preparation. Dispersion. Peptization. Emulsification
182	Colloids Disperse systems 661 182 ≈ 541.182
183	Adsorbents
1	Adsorbents with special properties. Ion-exchangers. Cationic and anionic exchangers
2	Activated carbon. Animal carbon (bone black) 661.666.6; 665.938
4	Natural silicates. Natural earths
.5	Other natural minerals. Natural oxides
.6	Synthetic silicates. Synthetic zeolites
.7	Silica gel
.8	Synthetic inorganic oxides. Activated alumina. Aluminium hydroxide gel
.184	Semi-colloids

661.184.2	Raw materials. Clays, e.g. bentonite. Baryta. Haematite etc. Fluid mud with fibrous additions
.3	Production. Control of viscosity and relative density
.4	Regeneration —622.7
.185	Surface-active agents (surfactants). Wetting, foaming and emulsifying agents. Detergents. Flotation agents etc. —648.18; 66.063.5

Special auxiliary subdivisions

661.185-3	Mixtures. Admixtures, additions
—32	Additions enhancing surface-active properties by salt formation (additions not intrinsically surface-active)
-322	Cation-yielding additions to anionic surfactants
-323	Anion-yielding additions to cationic surfactants
-4	State, condition, form of surface-active agents 661.185-4 ≈ 62-4

Principal divisions

661.185.1	Surface-active agents (surfactants) in general
.2	Organic ionic surfactants
.22	Anionic surfactants
.23	Cationic surfactants
.4	Organic non-ionic surfactants
.5	Inorganic surfactants
.6	Detergents and cleansers (powder, liquid or paste). Scouring powders
.7	Wetting, foaming and emulsifying agents —66.063.5/.6; 66.069.85
.186	Industrial production of synthetic surface-active agents
187	Soap industry
Special auxiliary subdivisions	
661.187-4	State, condition, form of soap products 661.187-4 ≈ 62-4
661.187.032	Preparation of the lye. Evaporation
.033	Saponification. Boiling —66.095.192
.034	Liming. Salting out. Grinding. Adjusting
.035	Artificial figging. Dyeing. Perfuming. Filling
.036	Draining. Running off. Pumping out
.037	Shaping. Cooling. Forming of cakes of soap etc.
.047	Drying (from 66.047)

Principal divisions

661.187 2	Raw materials for soap (e.g. fatty acids, rosin, alkalis)
.4	Production of soft soaps, potassium soaps
.5	Production of hard soaps, sodium soaps
.6	Production of Marseilles soaps
7	Soaps according to composition
.71	Tallow soaps. Lime soaps
.72	Rosin soaps
73	Oleic-acid soaps. Similar soaps
74	Semi-cold soaps. Cold-stirred soaps
.76	Soaps containing synthetic detergents or water softeners. Hard-water soaps
8	Soaps according to their use
.83	Household soaps
.84	Soaps for use on the skin. Toilet soaps. Shaving soaps. Medicated soaps
.85	Abrasive soaps. Pumice soaps
86	Laundry soaps
.88	Soaps for other uses (e.g. soaps for wire drawing) —621.892
.188	Glycerol industry
.1	Glycerol (glycerine)
.2	Recovery of glycerol from waste liquors in stearate production
.3	Recovery of glycerol from soap liquors (spent lyes), from soap production in open vessels
.4	Recovery of glycerol from soap liquors (spent lyes), from soap production in closed vessels

661.188.5	Production of colourless technical glycerol	661.49	Inorganic per-compounds. Per-salts in general
6	Production of chemically pure glycerol. Pharmaceutical glycerol		—661.729
.7	Other processes for glycerol manufacture. Synthetic glycerol production. Glycerol from fermentation processes	.491 .492 .493	Hydrogen peroxide Perchlorates Percarbonates
.8	Glycerol derivatives	.494 .495	Persulphates Perborates
661.2	SULPHUR AND ITS DERIVATIVES —661.8...51/54	661.5	NITROGEN COMPOUNDS. FIXATION OF NITROGEN —631.8; 661.8...41/44
.21	Sulphur		Ammonia (non-synthetic)
.22	Carbon disulphide	51	Commercial ammonium salts
.23	Halogen compounds of sulphur. Sulphur chlorides —661.4	52 521	Ammonium chloride (sal ammoniac)
.24	Sulphurous acid. Sulphites. Thiosulphates	522	Ammonium sulphate
.241	Sulphurous acid	.523	Ammonium carbonate (sal volatile).
.247	Thiosulphates (hyposulphates). Dithionates. Dithionites		Ammonium hydrogen carbonate (ammonium bicarbonate)
.248	Sulphur dioxide (sulphurous acid anhydride)	.525	Ammonium nitrate. Freezing salt mixtures —662.221.4; 662.341
.249	Sulphides. Hydrogen sulphide (sulphuretted hydrogen). Others	.526	Ammonium sulphate-nitrate
.25	Sulphuric acid (oil of vitriol)	.53	Ammonia synthesis
.251	Oleum (fuming sulphuric acid)	.534	High-pressure ammonia synthesis
.252	Crude sulphuric acid	.54	Cyanamides (e.g. calcium cyanamide) —661.842
.253	Production of sulphuric acid by lead-chamber processes	.55	Nitrides
.257	Sulphur trioxide (sulphuric acid anhydride). Starck process using fuming sulphuric acid Contact process	.56	Nitric acid and salts. Nitrous acid
.259	Nitric/sulphuric acid (mixed acid)	661.6	VARIOUS NON-METALS AND THEIR COMPOUNDS
661.3	ALKALIS. SODA AND POTASH INDUSTRIES —661.83; 669.86	.63	Phosphorus. Acids of phosphorus. Phosphates. Phosphorus fertilizers —631.85; 662.53; 661.8...45
.31	Potassium compounds	.631	Phosphorus
.311	Potassium carbonate. Potash	.632	Natural phosphates. Superphosphates
.312	Potassium hydroxide (caustic potash). Potassium peroxide	.634	Orthophosphoric acid. Other phosphorus-containing acids (phosphoric and phosphorous acids)
.32	Sodium compounds		Phosphorus-containing salts. Phosphates (and other salts)
.321	Sodium carbonate. Soda	.635	Phosphides in general
.1	Natural soda. Soda from mineral and vegetable sources. Crude soda. Soda ash	.636	Phosphorus hydride (phosphine)
.2	Soda from sugar beet	.637	Arsenic. Arsenates. Oxides and salts of arsenic —661.8...46
.3	Production of soda by Leblanc process	.64	Arsenic
.7	Ammonia-soda processes (e.g. Solvay process)	.641	Arsenic trioxide. Arsenites
.8	Soda crystals (washing soda)	.642	Arsenic acid. Arsenic pentoxide Arsenates
.322.1	Sodium hydrogen carbonate (Sodium bicarbonate. Bicarbonate of soda)	.643	Sulphur-arsenic compounds in general
.2	Sodium hydroxide (caustic soda)	.645	Arsenic disulphide. Realgar (red or ruby arsenic)
	Sodium peroxide	.646	Arsenic trisulphide. Orpiment (yellow arsenic)
661.4	HALOGENS AND HALOGEN COMPOUNDS INORGANIC PER-COMPOUNDS —661.23; 661.723; 661.8. .3	.647	Arsenic sesquisulphide. King's yellow (royal yellow)
.41	Production of chlorine	.648	Boron compounds —661.8...61
.419	Hydrochloric acid (spirits of salts). Hydrogen chloride	.65	Boric acid (Boracic. Sassolite)
.42	Chlorides	.651	Disodium tetraborate (Sodium borate Borax)
.422	Production from seawater. Sea salt. Salt mixtures —664.41 and references there	.652 .655 .66	Borides in general Carbon and its inorganic compounds —661.7; 661.8...62
.43	Hypochlorites in general. Bleaches —648.18	.664 .665	Hydrocyanic acid (prussic acid)
.44	Chlorates in general	.2	Carbides. Silicon carbide. Boron carbide
.46	Bromine and bromine compounds		Heavy metal carbides. Hardmetals (e.g. tungsten carbide) —669.018.25
.461	Bromine extraction	.666	Pure carbon
.462	Bromides in general	.2	Graphite
.463	Hypobromites	.3	Mineral black
.464	Bromates	.4	Carbon blacks (flameblack, lampblack etc.) —667.521.1
.47	Iodine and iodine compounds	.5	Vegetable blacks (e.g. charcoal black)
.471	Iodine extraction	.6	Ivory black. Animal carbon (Bone black. Bone charcoal) —661.183.2; 665.938
.472	Iodides		Metal carbonyls in general
.473	Hypoiodites	.668	Ultramarine and derived pigments.
.474	Iodates	.67	Ultramarine (lapis lazuli). Lazurite. Others —667
.48	Fluorine and fluorine compounds		
.481	Fluorine extraction		
.482	Fluorides		
.487	Hydrogen fluoride. Hydrofluoric acid		
.488	Fluorosilicic acid. Fluorosilicates		

661.68	Silicon and its compounds (not mentioned elsewhere) —661.8...65; 666.112.2
.683	Sodium silicate. Water-glass
.684	Potassium silicate. Potassium water-glass
.685	Silicides
.691	Selenium. Selenium compounds —661.8...58
.692	Tellurium. Tellurium compounds —661.8...59
661.7	ORGANIC SUBSTANCES —547
.71	Simple organic compounds —665.71
.715	Hydrocarbons
.716	Mixtures of aliphatic hydrocarbons
.1	Mixtures of saturated hydrocarbons (C_nH_{2n+2})
.2	Mixtures of unsaturated hydrocarbons
.3	Mixtures of saturated hydrocarbons (C_nH_{2n+2}) with unsaturated hydrocarbons
.717	Organic nitrogen compounds
.2	Nitro-compounds of hydrocarbons
.3	Aliphatic amines
.5	Urea
.718	Organic compounds of various metalloids (not mentioned elsewhere)
.719	Organic compounds of sulphur, selenium, tellurium
.72	Alcohols and their derivatives —663.5
.721	Methanol (methyl alcohol)
.722	Ethanol (ethyl alcohol). Denatured alcohol
.723	Halogen derivatives of simple hydrocarbons —661.4
.2	Halogen derivatives with one carbon atom
.3	Chloral hydrate
.6	Halogen derivatives with two carbon atoms
.61	Monohalogen derivatives
.62	Dihalogen derivatives. Dichloroethylene
.63	Trihalogen derivatives. Trichloroethylene
.64	Tetrahalogen derivatives. Tetrachloroethane
.65	Pentahalogen derivatives. Pentachloroethane
.66	Hexahalogen derivatives. Hexachloroethane
.7	Saturated derivatives with more than two carbon atoms 661.723.7 $\approx$ 547.21
.8	Unsaturated derivatives with more than two carbon atoms 661.723.8 $\approx$ 547.31
.724	Sulphuric ether. Diethyl ether
.725	Alcohols other than methanol and ethanol. Polyhydric alcohols
Special auxiliary subdivisions	
661 725-11/-12	Esters of alcohols with oxygen-containing inorganic acids and their salts 661.725-11/-12 $\approx$ 547.26'11/'12 (see note at 547)
Principal divisions	
661 725 2	Propyl alcohol
3	Isopropyl alcohol
4	Butanols (butyl alcohols)
5	Amyl alcohols —663 551.7
6	Higher monohydric saturated aliphatic alcohols (with more than five carbon atoms) Hexanols, heptanols, octanols etc.
7	Monohydric unsaturated aliphatic alcohols
8	Polyhydric alcohols. Cyclic alcohols
9	Mixtures of alcohols
726	Ethers other than diethyl ether Esters of alcohols (except methanol and ethanol) with oxygen-containing inorganic acids 661.726 $\approx$ 661.725
.727	Aldehydes. Ketones
1	Formaldehyde
.2	Acetaldehyde
.4	Acetone

661.728	Cellulose. Cellulose derivatives —676.1; 677.46; 678.54 661.728.02 Processing operations and plant. Conversion
.3	Raw materials for cellulose production
.4	Auxiliary materials
.8	Cellulose derivatives. Cellulose esters, nitrate etc.
.81	Cellulose formate
.82	Cellulose acetate
.84	Cellulose xanthate. Viscose
.85	Other organic cellulose esters
.86	Cellulose nitrate
.88	Cuprammonium derivatives
.89	Other cellulose derivatives. Cellulose ethers
.729	Organic peroxides —661.49
.73	Organic acids, their salts, esters etc. (except peroxides)
.731	Acetic acid. Acetates. Vinegar —663.242
.7	Acetic ester. Ethyl acetate
.8	Amyl ester. Amyl acetate
.732.1	Formic acid. Formates
.4	Propionic acid. Propionates
.5	Butyric acid. Butyrates
.6	Valeric acid and its esters (Valerates. Fruit essences)
.7	Saturated aliphatic monocarboxylic acids with more than five carbon atoms
.8	Unsaturated aliphatic monocarboxylic acids and their derivatives
.9	Higher fatty acids
.733.1	Oxalic acid and its salts
.2	Lactic acid and its salts
.3	Tartaric acid and its salts
.4	Gluconic acid. Gluconates (e.g. calcium gluconate)
.734.1	Citric acid
.2	Tannin. Tannic acid —675.042
.78	Organometallic compounds
.781	Cacodyl (tetramethyldiarsine)
.783/ 789	Various organometallic compounds 661.783/.789 $\approx$ 546.3/.9, e.g. 661.784.7 Zinc ethyl (from 546.47)
661 8	METALLIC COMPOUNDS IN GENERAL. SALTS. MINERAL COMPOUNDS —669 <i>The direct divisions of 661.8 may each be further subdivided by adding the ...2/...9 numbers below. To denote specific compounds (oxides, bases, salts) not allowed for elsewhere, add these suffixes to the direct division denoting the metal of the anion, e.g.</i> 661 862 27 Aluminates (salts corresponding to the oxide Al_2O_3) from 661 862 and ...27
Special auxiliary subdivisions	
661 8-11/-18	Valency (of the metallic element in the compound), e.g. 661 8-11 Monovalent —12 Divalent
661.8 .2	Oxides
.. 22	Oxide
...23	Hydroxide
.. 24	Peroxide
. . 27	Salts with a metal as part of the anion 661 8...27 $\approx$ 546
...3	Halogen compounds. Cyanide compounds. Hydride —661.4
...32	Chlorine compounds
...321	Chloride
...322	Oxychlorine compounds
.2	Hypochlorite

661.8 ...322.3	Chlorite	661.847 (cont'd)	661.847.951.1 Zinc sulphide Lithopone
5	Chlorate		Sulphopone
.7	Perchlorate		from 661.847.9 and ...511
.34	Bromine compounds	.848	Cadmium compounds
	661.8...34 $\approx$ 661.8...32	.849	Mercury compounds
...35	Iodine compounds	.85	Lead, copper, silver and gold compounds
	661.8...35 $\approx$ 661.8...32	.852	Lead compounds
...36	Fluorine compounds		661.852.22 Lead oxides. Litharge.
	661.8...36 $\approx$ 661.8...32		Massicot. Red lead (minium).
...37	Cyanide compounds. Cyanide, cyanate etc.		Litharge of silver
...371	Cyanide		from ...22, further subdivided here
..38	Thiocyanate		.222 Litharge. Crystalline lead
..39	Hydride		oxide
...41	Nitride		.224 Red lead (minium). Pure lead
	—661.5		oxide
...42	Nitrite		.62 Carbon compounds of lead
...43	Nitrate		from ...62, further subdivided here
...44	Other nitrogen compounds. Azide		.622.8 Basic lead carbonate Lead
...45	Phosphorous compounds		white. Cerussite
	—661.63	.856	Copper compounds
.46	Arsenic compounds	.857	Silver compounds
	—661.64	.859	Gold compounds
...47	Antimony compounds	86	Aluminium compounds. Compounds of rare
...51	Sulphur compounds. Sulphide. Disulphide		earths
	—661.2	862	Aluminium compounds
...511	Sulphide		—669.712.3
...52	Sulphite	.863/ 868	Rare earth compounds. Compounds of
...53	Sulphate. Hydrogen sulphate (bisulphate)		scandium, yttrium, gallium, indium etc.
...54	Other sulphur compounds	.865	Rare earth compounds in general
...58	Selenium compounds	.4	Lanthanum compounds
	—661.691	.868.3	Thallium compounds
...59	Tellurium compounds	.87	Transition metal compounds. Manganese
	—661.692		compounds. Iron group compounds
...61	Boron compounds	.871	Manganese compounds
	—661.65	.872.9	Iron compounds
...62	Carbon compounds (inorganic)		661.872.92 Iron oxides in general
	—661.66		from 661.872.9 and .. 2
...65	Silicate		.922 Iron oxide
	—661.68		from ...22, further subdivided here
..66	Fluorosilicate		.922.21 Natural red iron oxide
...7	Organic salts, esters etc.		Haematite. Red ochre.
...71	Salts of saturated fatty acids with fewer than		Terra di Siena (red chalk,
	ten carbon atoms		ruddle)
...74	Various salts of aliphatic acids. Oxalate		.23 Synthetic red iron oxide
	Lactate. Citrate		English red Venetian red.
...75	Salts of aliphatic acids with longer chains.		Pompeian red. Naples red
	Palmitate. Stearate. Oleate. Linoleate.		Indian red. Japanese red.
	Resinate		Chinese red
..78	Salts of aromatic acids. Benzoate. Salicylate.		.3 Yellow iron oxide Yellow
	Phthalate		ochre
...8	Basic compounds, salts		.937.1 Ferrocyanides.
...9	Complex and double compounds, salts		Ferricyanides
	661.8...9 $\approx$ 546		from 661.872.9 and ...371
Principal divisions		.873	Cobalt compounds
661 83	Alkali metal compounds	.874	Nickel compounds
	—661.3	.875	Chromium compounds
.832	Potassium compounds in general. Potassium		661.875.2 Chromium oxides
	industry		.27 Chromic acid Chromates.
	661.832.43 Potassium nitrate (nitre,	.877	Dichromates
	saltpetre)	.878	Molybdenum compounds
.833	Sodium compounds	.879	Tungsten compounds
	661.833.321 Sodium chloride. Rock salt		Compounds of radioactive elements.
	(halite)		Uranium, radium, neptunium and plutonium
	—664.41 and references there		compounds
.834	Lithium compounds	.88	Group IV and Group V metal compounds
.835	Rubidium compounds	.881	Tin compounds
.836	Caesium compounds	.882	Titanium compounds
.84	Compounds of group II metals (alkaline		661.882.22-13 Titanium sesquioxide
	earths)		-14 Titanium dioxide. Titanium
.842	Calcium compounds		white
	—661.54	.883.1	Zirconium compounds
.843	Strontium compounds	.2	Hafnium compounds
.844	Barium compounds	.884	Thorium compounds
.845	Beryllium compounds	.886	Antimony compounds
.846	Magnesium compounds	.887	Bismuth compounds
.847.9	Zinc compounds	.888.1	Vanadium compounds
	661.847.922 Zinc oxide. Zinc white. Zinc	2	Niobium compounds
	grey	.3	Tantalum compounds
	from 661.847.9 and ...22	.89	Compounds of metals of the platinum and
			ruthenium groups

661.892	Platinum compounds	662.164.2	Organic war gases
.893	Iridium compounds	.17	Smoke-generating devices. Smokes, mists, fogs
.894	Osmium compounds		—623.454.5; 631.348
.896	Ruthenium compounds		Special fireworks for indoor use. Stage, theatre fires and flares
.897	Rhodium compounds	.18	—662.113
.898	Palladium compounds		High explosives
661.9	TECHNOLOGY OF GASES	.2	—622.235; 623.45
	—66.071; 662.76		Special auxiliary subdivisions
.91	Compressed, liquefied and solidified gases in general		<i>The -3 auxiliaries listed under 62 are not applicable here</i>
	—621.51; 621.59		Mixtures of high explosives
	621.91-403.3 Compressed gases	662.2-3	Explosive mixtures with organic substances
	-404 Liquefied gases	-31/-38	662.2-31/-38 ≈ 662.231/.238, e.g. 662.237.3-381 Mixture of TNT and hexogen
	-405 Solidified gases		(-381 from 662.238.1)
.92	Atmospheric air		Explosive mixtures with inorganic and various inactive substances
.937	Oxygen		Explosive mixtures with azides (e.g. lead azide)
.1	Oxygen-rich gas mixtures	-39	Explosive mixtures with active inorganic substances. Mixtures with metal powder, e.g. aluminium
.2	Pure oxygen	-395	Explosive mixtures with inactive substances, e.g. kieselguhr
.938	Nitrogen	-397	State of explosive material
.939	Inert gases (rare gases)		—66-91
	661.939 ≈ 546.29		Production processes
.94	Ozone	-398	Nitration
.96	Hydrogen		Washing. Drying. Separation, removal of acids
.968	Hydrides	-4	Recovery and treatment of spent acids and by-products
.97	Carbon dioxide		Pulverizing. Milling, grinding
	661.97-404 Liquid carbon dioxide		Mixing. Kneading. Rolling. Pressing
	-405 Solid carbon dioxide. Dry ice		Moulding. Casting. Stabilization
.98	Oxides of nitrogen		Cutting. Slicing
.981	Nitrous oxide	662.2.03	Surface treatment. Impregnation
.982	Nitric oxide	.032	Paraffination (waxing)
.984	Nitrogen dioxide (nitrogen tetroxide)	.033	Finishing. Granulation. Polishing. Graphitizing
.986	Nitrosyl chloride	.034	Drying. Dust removal
.992	Phosgene (carbonyl chloride)		
.993	Carbon monoxide	.035	
662	EXPLOSIVES. FUELS	.036	
662 1/.4	EXPLOSIVES	.037	
	—622.235; 623.45	.038	
1	Fireworks. Pyrotechnic and related devices	.099	
	—623.4.083.3		Principal divisions
.11	Display fireworks	662.21	Mode of action and properties of high explosives
.111	Pyrotechnic components. Fuses, touchpapers, primers for fireworks. Charges (producing light, colour, bangs, whistles)	.215	Physical properties and their testing
.112	Stationary flares. Fire sprays, fountains etc. Bengal lights	.1	Combustion of explosives. Deflagration
.113	Fireworks producing noise and light. Bangers. Squibs. Crackers, firecrackers. Roman candles. Rains of fire. Sparklers. Indoor fireworks	.2	Detonation
.114	Flying fireworks. Rockets. Skyrockets. Flying dragons etc.	.3	Performance. Efficiency. Explosive yield. Lead block test. Lead plate test. Explosive pressure. Brisance. Shattering or fragmentation effect
.115	Whirling, spinning fireworks. Catherine wheels. Whirligigs etc.	.4	Density of explosive charge
.116	Mounted firework displays. Pyrotechnic mosaics, pictures, set-pieces	.5	Initiation of detonation
12	Pyrotechnic signalling devices. Signal flares. Flare apparatus	.2	Sensitivity to percussion, impact. Sensitivity to friction
	—654.912		Performance. Efficiency. Explosive yield. Lead block test. Lead plate test. Explosive pressure. Brisance. Shattering or fragmentation effect
122	Star signals. Very lights	3	Density of explosive charge
123	Signal rockets	4	Initiation of detonation
124	Flares for photographic flashlight	.5	Sensitivity to percussion, impact. Sensitivity to friction
	—771.448		Chemical properties and their testing
126	Flaming torches as signals	.216	Chemical stability of explosives
	—628.9.045; 665.194	.1	Hygroscopicity of explosives
13	Pyrotechnic devices for rescue purposes.	.2	Combustion products of explosives.
	Pyrotechnic devices for lifebuoys etc.	.3	Explosion gas: quantity and composition.
14	Incendiary devices and substances. Fire-brands, Greek fire etc.		Combustion residues
	—623.454.72	.4	Heat of combustion of explosives
.15	Blasting, demolition devices. Petards. Explosive cartridges	.5	Ignition temperature of explosives
16	Gas-generating fireworks. War gases	.6	Afterburning of explosives
161	Gas-generating fireworks and equipment, e.g. for police use	.22	High explosives derived from inorganic substances. Mixtures of substances inert at normal temperatures
164	Production of war gases	.221	Explosive powders containing nitrates
	—623.459		
.1	Inorganic war gases		

662.221.1	Black powder. Ordinary blasting powder —662.24; for gunpowder as propellant — 662.33	662.311	Physical properties and their testing —531.5; 623.5
2	Nitrate powders in which one or more constituents of ordinary black powder have been replaced by other substances	.1	Combustion of propellants. Disruptive or brisant powders. Progressive powders
.21	With saltpetre (potassium nitrate) replaced by, e.g., sodium nitrate, ammonium nitrate	.2	Performance. Efficiency
23	With charcoal replaced by, e.g., chaff, sugar	.3	Density of propellant charge
.3	Black powder with additives (e.g. with added hydrocarbons or carbohydrates)	.4	Flammability, ignitability of propellants
.4	Ammonium nitrate explosives —661.525	5	Sensitivity to percussion, impact. Sensitivity to friction
222.1	Explosive powders containing chlorates	.312	Chemical properties and their testing
.2	Explosive powders containing perchlorates	.1	Chemical stability of propellants
23	High explosives derived from organic substances	.2	Hygroscopicity of propellants
.231	Nitrated carbohydrates	3	Combustion products of propellants
21	Nitrocellulose. Guncotton (pyroxylin)	.4	Explosion gas: quantity and composition
.23	Explosive mixtures with nitrocellulose as main constituent (e.g. nitrocellulose mixtures with black powder)	.5	Combustion residues
.3	Nitrocellulose from various raw materials (e.g. from wood cellulose, from cotton)	.6	Heat of combustion of propellants
.232	Nitrated aliphatic alcohols and ethers	.32	Ignition temperature of propellants
.1	Nitroglycerine in general	.33	Afterburning of propellants. Muzzle flash
.2	Dynamite. Ordinary dynamite, with kieselguhr.	.34	Early types of gunpowder
.4	Dynamite with active additives	.341	Black powder. Ordinary gunpowder. Cannon and musket powders —662.221.1
.5	Nitrated glycols	.342	Various gunpowders resembling black powder, with inorganic constituents
.6	Pentaerythritol tetranitrate (PETN)	.343	Gunpowders containing nitrates (e.g. ammonium nitrate. Ammonal) —661.525
.7	Nitroisobutylglyceryl trinitrate	35	Gunpowders containing chlorates
.233	Nitrated chlorohydrins	.351	Gunpowders containing perchlorates
.1	Explosive gelatines. Gelignite	.35	Smokeless propellant powders
.2	Nitroglycerine and nitrocellulose mixtures (without other active substances)	.351	Smokeless powders based on nitrocellulose (Guncotton. Pyroxylin)
.234	Nitroglycerine and nitrocellulose mixtures with other active substances (e.g. with added ammonium nitrate)	.6	Nitrocellulose with additives to reduce muzzle flash
.235	Other aliphatic nitro-derivatives.	352	Nitroglycerine smokeless powders.
.1	Nitromethane. Nitrated aliphatic aldehydes and ketones. Nitrated aliphatic acids.	6	Smokeless powders of nitrocellulose and nitroglycerine. Cordite
.2	Nitrated aliphatic amines. Others	353	Nitroglycerine powder with additives to reduce muzzle flash
.236	Nitrated phenols and aromatic alcohols.	.4	Smokeless powders of nitrocellulose with other explosives (e.g. with nitrobenzene)
.1	Picric acid and its derivatives Picrates	.41	Initiators, primers for explosives.
.2	Picric acid	.411	Detonators
.237	Mixtures of picric acid with other substances	.412	Initiators. Substances ignited by flame, friction or percussion for initiating an explosion
.7	Nitrated sulphides. Hexanitrodiphenyl sulphide etc.	.413	Special properties of initiators Sensitivity to percussion, impact. Sensitivity to friction.
237	Nitrated aromatic amines.	.414	Sensitivity to heat
2	Hexanitrodiphenylamine.	.415	Fulminates (e.g. silver fulminate, mercury fulminate)
.3	Tetranitromethylaniline (tetryl)	42	Azides (e.g. silver azide, lead azide)
.5	Nitrated aromatic hydrocarbons (e.g. nitrated coal-tar derivatives)	.421	Various detonating compounds (e.g. lead styphnate, tetrazene)
238	Nitronaphthalene	1	Initiator compositions. Priming mixtures (based on fulminates, azides etc.)
.1	Trinitrotoluene (TNT)	.2	Priming devices. Percussion caps. Igniters —623.454.2
.3	Nitrobenzene and its derivatives	.21	Mechanically operated priming devices
.24	Nitrated heterocyclic compounds	22	Friction primers Friction caps, tubes, igniters
.1	Cyclotrimethylene trinitramine (RDX)	.422	Percussion primers. Percussion caps
.3	Hexagon. Cyclonite)	.423	Paper caps (e.g. for toy guns) —623.447
.241	Nitrated heterocyclic alcohols	.43	Metal caps
.242	Permitted explosives (safe explosives) for use in mines —622.235; 662.221.1	.44	Chemical priming devices. Chemical igniters
.243	Safe explosives resembling black powder	.45	Electric priming devices. Spark, filament and arc igniters
.244	Safe explosives based on ammonium nitrate	.452	—621.3.032.4
.245	Safe explosives with low gelatine content	.46	Detonators for high explosives
.25	Safe explosives with high gelatine content	.47	Firing tubes for guns
.251	Sheathed safe explosives	.471	Matches (match-cords). Fuses (fuzes), string-type —623.454.1
.1	Explosives formed at time of use. Special explosives with liquid or gaseous constituents	.472	Slow-burning fuses (slow-match fuses).
.2	Sprengel explosives		Safety fuses
.1	Sprengel explosives with solid constituents		Detonating fuses
.2	Sprengel explosives with liquid constituents (e.g. nitric acid, picric acid, carbon disulphide, benzene, nitrobenzene)		Projectile fuses. Fuses for shells etc.
.252	Safe explosives with gaseous constituents (e.g. nitrogen dioxide, liquid oxygen (LOX), liquid air)		Wooden time fuses
.3	Propellant powders. Gunpowders		Metal time fuses. Perforated fuses. Insertable fuses. Conduits for detonation cord
.31	Special properties of gunpowder		

662.473	Percussion fuses. Impact fuses	662.612	Dynamics of combustion
.474	Combined fuses. Impact firing caps	.1	Ignition process
.48	Firing devices. Firing mechanisms	.2	Chemistry of combustion process.
.481	Firing devices with chemical reaction	.3	Combustion reactions
.482	Mechanical firing devices. Firing mechanisms	.31	Physics of combustion process
662.5	IGNITERS. KINDLERS. MATCHES. LIGHTERS	.32	Homogeneous reactions. Gas combustion
.51	Primitive methods of producing fire, flame.	.5	Heterogeneous reactions. Reaction time.
	Wood friction kindlers. Flint-striking devices.		Combustion time
.52	Tinder-boxes. Touchwood. Amadou	.613	Combustion temperature. Temperature distribution in the flame, in solid fuels
.53	Various kindlers: with air (fire syringes), with hydrogen, with fulminating primers	.11	Combustion products. Combustion residues —628.477.7
	Matches (stick matches). Vestas —661.63	.12	Ash (Content, composition. Fusion point of ash)
Special auxiliary subdivisions			Clinker. Slag. Combustion residues containing unburnt fuel. Tapping of liquid slag. Recovery, utilization, gasification of residues —66.046.58
662.53.03	Raw materials. Wood and other materials for matchsticks. Flammable substances for match-heads. Impregnating substances for matchsticks	.13	Soot. Flue dust. Fly ash. Fly coke. Solid matter in smoke and combustion gases. Separation, removal, use —628.511 and references there
.05	Processes and equipment for match manufacture	.4	Liquid combustion products. Tar. Recovery of tar
.052	Machines for cutting of matchsticks and insertion into holders on machines	.5	Combustion gases and suspensions. Smoke. Flue gases. Composition. Dew point. Enthalpy —662.96
.053	Methods and equipment for insertion of stems into conveyor or frame	.614	Heat balance —662.998
.054	Impregnation of matches. Colouring. Dipping. Paraffining. Drying	.2	Useful heat. Heat utilization. Combustion efficiency. Calorific value —536.66; 62-66
.055	Conveyor bands, trays etc. for matches	.4	Heat losses
.056	Separation and distribution of matches	.42	Heat losses through combustion products
.057	Devices for filling of matchboxes	.422	Heat losses through gaseous combustion products
.058	Devices for printing and stamping of matches	.423	Heat losses through incomplete combustion (unburnt fuel etc.)
Principal divisions		.44	Heat losses through conduction
662.531	Sulphur matches. Pyrophoric pastes	.45	Heat losses through radiation
.532	Phosphorus matches. Phosphorus-headed wooden matches. Safety matches. Wax matches (wax vestas). Wax tapers. Fuses. Paper matches	.49	Other heat losses, e.g. in unsteady-state operation. Heating-up losses
.533	Non-phosphorus matches. Lucifers	.5	Remainder of heat balance
.534	Headless matches	.62	Solid fuels in general —662.71/.74
.536	Friction strips for matches. Matchboxes and books with friction strips —688.94	.63	Wood and other vegetable matter as fuels
.58	Devices for aiding ignition, promoting combustion. Firelighters. Lighters	.631	Softwoods as fuels
.581	Solid firelighters	.632	Hardwoods as fuels
Special auxiliary subdivisions		.636	Grasses and their residues as fuels. Bagasse, reeds, straw as fuels —664.113
662.581.05	Processes and equipment for firelighter manufacture	.637	Rinds and barks as fuels
	662.581.05 ≈ 662.8.05	.638	Wood waste, sawdust as fuels
Principal divisions		.64	Peat and lignite as fuels —553.96/.97; 622.331/.332
662.582	Liquid firelighters	.641	Peat as fuel
.584	Igniters with pyrophoric metals or alloys.	Special auxiliary subdivision	
.59	Friction spark-producers. Flint-wheels etc.	662.641.03	Preparation. Peat cutting, comminution, drying
	Other devices for producing fire. Pocket lighters —683.88; 683.98	Principal divisions	
591	Lighters using solar heat, e.g. magnifying lenses (burning glasses) —681.722	662.641.1	Low-moor peat
592	Other non-electric lighters. Cigar and cigarette lighters. Flint lighters (with or without fuel supply)	.2	High-moor peat
593	Electric lighters (with spark, filament or arc ignition)	.642	Lignite as fuel
662.6/9	HEAT ECONOMY FUEL ECONOMY. FUELS. HEATING	.1	Fossilized wood. Fibrous lignite. Xylite
	—536; 62-6; 621.4; 66.04	.2	Brown coal. Brown lignite. Earthy lignite
6	Heat or fuel economy in general.	.3	Black lignite (of upper Bavaria and Bohemia)
61	Combustion. Natural fuels	.65	Various low-grade fuels. Refuse as fuel. Coal wastes, slurry, middlings, tailings. Animal dung as fuel —628.474/.477
611	Combustion —662.9	.66	Hard, bituminous coals and anthracite as fuels —553.93/.95; 622.333/.335
	Theory of combustion —536.46	Special auxiliary subdivision	
.2	Stoichiometric relations in combustion.	662.66.016	Caking capacity of coal
22	Measurement and control of combustion	Principal divisions	
.23	Complete combustion	662.661	Long-flame lean coal. Gas flame coal
3	Incomplete combustion	.662	Long-flame fat coal. Gas coal
.4	Oxygen and air requirements. Excess air	.663	Fat coal proper. Forge coal
	Smokeless combustion		

662.664	Short-flame fat coal. Coking coal	Special auxiliary subdivisions
.665	Lean coal. Short-flame anthracite coal	662.76 032 Gas producers in general
.667	Anthracite as fuel	034 Processes and equipment for gas production with by-product recovery. Separation of lean and rich gases
.67	Shale as fuel	.035 Processes and equipment for simple gas producers
.7	Fuel technology. Processed fuels	.036 Processes and equipment for complex gas producers. Gas-generating plant with secondary producers
	—665.6	.037 Processes and equipment for using incandescent incombustible materials
.71/.74	Solid fuels	075 Carburation of fuel gases Carburation media Various additions to gas
	—662.62	.2 Carburation by passing the gas through the carburation medium
.71	Fuel technology of wood. Production of charcoal, wood tar, pitch	.3 Carburation by atomization of the carburation medium
.711	Charcoal production in stacks, piles	662.76.075 3 = 621 43 03
.712	Charcoal production in ovens. Wood distillation. Wood tar production	.4 Carburation by surface action
.715	Wood tar and its processing	.5 Other carburation processes and equipment, e.g. using solid agents
.1	Wood tar	.8 Materials for carburation and odorization. Carburants Various additions to gas (e.g. odorants for warning of gas leaks)
.7	Pyroligneous acid	
.8	Wood-tar pitch	Principal divisions
.73	Fuel technology of peat, lignite, refuse etc	662.761 Producer gas (air gas)
.731	Peat distillation and carbonization	.762 Semi-water gas. Mond gas
.732	Lignite distillation and carbonization	.763 1 Blue water gas (BWG)
.734	Carbonization of refuse, wastes	2 Carburetted water gas (CWG)
	—628.474	.764 Gas from coal distillation. Coal gas
.735	Peat tar and its processing. Peat-tar pitch	Illuminating gas. Town gas (blend of coal gas and water gas)
.736	Sapropelite tar and its processing	.2 Crude gas
.737	Brown-coal tar and its processing.	.3 Purified gas
	Brown-coal pitch	7 Precipitation in gas mains, pipes (gums, resins etc.). Preventive measures
.74	Fuel technology of hard, bituminous coal.	.765 Gas from thermal processing of other solid or liquid fuels
	Coke production	1 Wood gas
.741	High-temperature carbonization of hard coal (above 1000°C). High-temperature coking	.2 Peat gas. Brown-coal gas
.1	Coking in heaps	.3 Resin gas
.2	Coking in retorts or similar ovens	.4 Oil gas
.3	Coking in special ovens at high temperature.	5 Air-gas mixtures Carbureted gas Aerogene gas
	Metallurgical coke (blast furnace coke).	.766 Acetylene
	Foundry coke	.3 Acetylene production by action of water on calcium carbide
.31	Coking in ovens without heat recovery and without by-product recovery	.31 Water-feed generators in general
.32	Coking in ovens without heat recovery but with by-product recovery (recuperative ovens). Condensers for tar and ammonia recovery. Waste-heat ovens	.32 Generators without automatic control of water flow
.33	Coking in ovens with heat recovery but without by-product recovery (regenerative ovens)	.33 Generators with automatic control of water flow
.34	Coking in ovens with recovery of heat and by-products (regenerative and recuperative ovens)	.34 Contact-type generators with bell
.35	Quenching and cooling of coke (wet or dry methods). Heat recovery	.35 Contact-type generators with bell and closure between carbide container and water
.742	Medium and low-temperature carbonization of hard coal. Fractional distillation	.37 Special contact-type generators with bell. Kipp's apparatus. Immersion-drop-type acetylene generators
.1	Medium-temperature carbonization of hard coal (about 700°C)	.38 Carbide-immersion-type acetylene generators
.2	Low-temperature carbonization of hard coal (about 450°C)	.5 Processes following acetylene generation. Acetylene lime sludge Aeration De-aeration
.749	Coke. Coal tar	6 Dissolved acetylene. Solution of acetylene, e.g. in acetone. Filling material for dissolved acetylene
	—662.76	.7 Mixtures of acetylene with gases other than hydrocarbons (e.g. oxy-acetylene mixtures)
.2	Coke	.767 Various gaseous hydrocarbons as fuels.
.3	Coal tar and its processing. Gas tar	Natural gases as fuels
.38	Coal-tar pitch	—665.612; 665.72
.39	Pitch coke	.1 Methane as fuel
.75	Liquid fuels	.3 Propane as fuel
.753	Mineral oils as fuels	.4 Butane as fuel
	—665.6	.769 Other gases and gas mixtures as fuels
.1	Light oils	.1 Blast-furnace gas as fuel
.2	Middle oils	.2 Hydrogen as fuel. Detonating gas and acetaldehyde as fuels
.3	Heavy oils	
.754	Organic chemicals as liquid fuels (e.g. alcohol, methanol)	
.756.2	Animal oils as fuels	
.3	Vegetable oils as fuels (e.g. resin oils)	
.757	Colloidal, gelatinized fuels	
.758	Composite liquid fuels. Blended, mixed liquid fuels	
.2	Mixtures of liquid fuels only	
.3	Solutions of gases as fuels	
.4	Solutions of solids as fuels	
.76	Gaseous fuels. Gas producers	
	—66.071; 661.9; 662.749	

662.8	Mechanical treatment for solidification of fuels. Briquetting —622.788	662.932.1	Components of grates. Grate bars, segments etc. Devices for ash and clinker removal. Slagging devices, scavengers —66.042.86
Special auxiliary subdivisions			
662.8.05	Processes and equipment for fuel solidification	.2	Simple horizontal grates
.051	Pretreatment of briquetting fuel (e.g. mixing of different grades of fuel)	.3	Grates with air injection, bellows, blowers. Undergrate blast systems
.052	Briquetting without binders	.4	Inclined grates. Stepped grates
.053	Briquetting with binders	.5	Other kinds of fixed grate. Underfeed grates. Zoned grates. Double grates. Basket grates. Hollow grates. Grates with external cooling
.2	Briquetting with inorganic binders (e.g. clay, waterglass, gypsum)	.6	Automatically movable grates
.3	Briquetting with organic binders (e.g. emulsions, asphalt, pitch, resins, latex)	.61/.65	Components of movable grates. Types of movable grate 662.932.61/.65 ≈ 662.932.1/.5
.4	Briquetting with mixtures of inorganic and organic binders (e.g. cellulose waste liquor)	.66	Tipping grates. Rocking grates
.054	Mixing, blending, kneading processes	.67	Rotary, revolving grates
.055	Pressing, compaction of fuel blend. Forming, shaping of briquettes	.68	Travelling grates. Chain grates
.056	Coating and impregnation of briquettes. Additives, e.g. for smoke abatement —662.892	.69	Other movable grates. Removable, transportable grates
.057	Final treatment of briquettes. Carbonization of briquette binders. Drying, cooling etc.	.7	Accessories for removable grates. Levellers, skimmers. Slag dams
Principal divisions			
662.81	Briquettes	.933	Fuel feed. Charging devices for furnaces. Mechanical stokers. Scoop-type, overfeed, underfeed stokers etc. Pulverized-fuel furnaces —662.87
.812	Peat briquettes	.1	Comminution, pulverizing devices combined with the furnace. Burners for pulverized fuel. Combustion chambers for pulverized fuel. Ash and clinker removal. Slagging —621.926
.813	Lignite briquettes. Brown-coal briquettes	.2	Pulverized-fuel furnaces with centrifugal fuel dispersion
.814	Coal briquettes	.4	Pulverized-fuel furnaces with fuel dispersion by injection
.815	Coke briquettes	.8	Combinations of pulverized-fuel furnaces with other types (e.g. with grate firing). Supplementary firing
.816	Charcoal briquettes	.936	Furnaces for chunk-form solid fuel (not pulverized)
.818	Briquettes from waste	.939	Other kinds of solid-fuel furnace (e.g. Ten-Brink furnaces)
.87	Pulverous and pulverized fuels. Coal dust as fuel	.94	Liquid-fuel furnaces —683.944
.88	Impregnation. Solidification of liquid fuels. Solid alcohol. Solid petroleum. Briquetted chemicals as fuels (e.g. briquetted metaldehyde)	.941.2	Liquid-fuel burners in general
.892	Smoke dispellents. Substances added to fuels at time of combustion —662.8.056; 662.966	.5	Control devices, regulators for liquid-fuel furnaces
.9	Furnace and combustion engineering —662.61	.8	Special devices for viscous and colloidal fuels
.91	Domestic heating appliances —644.1; 683.9; 697	.942	Liquid-fuel furnaces with centrifugal fuel dispersion (and other mechanical dispersion except injection)
.917	Personal warming devices. Heating the human body or its parts. Hot-water containers. Hot-water bottles etc. Heated objects, e.g. stones	.944	Liquid-fuel furnaces with fuel dispersion by injection of air, steam, gas
.918	Heating of vehicles	.946	Wick burners
.919	Heating in the open air. Open-air stoves, braziers etc.	.947	Liquid-fuel furnaces with large absorbent surface
.92	Industrial firing in general —621.18; 621.745; 66.041.3, 66.042.3	.948	Liquid-fuel furnaces with fuel vaporization (before combustion) —662.951.2
.921	Fire boxes (fire chambers) in general. Combustion chambers. Heating surfaces. Grate surfaces	.3	Vaporizing devices for liquid fuels —621.43.03
.922	Furnace draught in general. Natural draught. Chimneys: shape, structure, cleaning	.949	Furnaces for combustion of both liquid and solid fuels
.923	Artificial, forced draught (and its regulation)	95	Gaseous-fuel furnaces. Gas-fired furnaces —683.95
1	Draught regulators, throttles etc	.951.2	Gas burners in general —683.877/.878
3	Bellows. Blowers	.22	Low-pressure gas burners without air supply
.924	Devices for introducing air and steam. Humidification, moistening	.23	Low-pressure gas burners with air injection
.925	Preheating of combustion air. Heat storage —662.995	.25	High-pressure gas burners with air injection
.926	Cooling of combustion chamber walls. Insulation of combustion chamber —662.998	.26	High-pressure gas burners with gas injection
.927	Temperature control in general. Heat regulators —536.58; 621.316.79; 681.536.5	.953	Furnaces for rich gases
.928	Fire doors. Fire bridges. Related devices	.954	Furnaces for lean gases
.929	Firing control. Stocking, charging. Ash and clinker removal. Slagging. Furnaceman's, stoker's equipment	.955	Gaseous-fuel furnaces with combustion in stages. Semi-gas furnaces
.93	Solid-fuel furnaces	.957	Gaseous-fuel furnaces with heat recovery (regenerative and recuperative furnaces) —622.99
.932	Grates. Charging devices for furnaces —66.042.83		

662.959.2	Furnaces for combustion of both gaseous and liquid fuels	663 031.8	Liquors forming bases of blended drinks, e.g. sugar syrups
.3	Furnaces for combustion of both gaseous and solid fuels		—663.812; 664.14
.4	Special devices for burners in steam generators with internal combustion	.032	Equipment for preparation of mash and wort (for yeast processes and other processes)
	—621.181.2	.033	Fermentation vessels and accessories
.5	Gaseous-fuel furnaces with flue gas recirculation. Drum gas heaters	.035	Extraction and pressing of yeast
6	Gaseous-fuel furnaces for flameless surface combustion	.036	Preservation and storage of yeast
.96	Smoke consumption. Smoke abatement. Treatment of combustion products	.05	Additions. Preservation. Aftertreatment
	—628.511 and references; 662 613.5; 662.8.056; 662.842		<i>The .05 auxiliaries are not applicable at 663.91</i>
963	Purification of emissions by washing, scrubbing	051	Additions for improvement of flavour.
	—66.074.5		Aromatic supplements
.964	Devices for separating and solid and incandescent particles in smoke	.052	Additions for improvement of appearance or physical properties (e.g. viscosity, foaming capacity)
.965	Precipitation from smoke		—667.777
.966	Methods of smoke prevention (smoke abatement). Smoke combustion. Smoke consumption (in the strict sense). Smoke dispellents	.053	Preservation methods for beverages
	—662.892		666.053 ≈ 664.8.03
.98	Heating of apparatus and utensils. Various heating methods	.054	Diluents for beverages
	—542.4; 621.365; 621.745; 644.1; 683 9	.057	Methods and equipment for infusing beverages with carbon dioxide. Carbonation, aeration of beverages
.981	Solid-fuel heating appliances. Solid-fuel ovens, stoves, hotplates etc.		Various aftertreatments
.982	Liquid-fuel heating appliances. Liquid-fuel burners, stoves etc. Spirit burners	.058	Natural maturing, ageing of beverages.
.983	Gas-fired heating appliances. Gas burners, rings etc. Bunsen burners	2	Cellaring. Means of preservation in cellars
.986	Heating by direct contact. Heating by injection of hot gas, air, steam. Heating by contact with hot liquids or solids	3	Artificial maturing, ageing of beverages
987	Indirect heating. Heat transfer media. Heat exchangers. Baths of hot water, molten salts, molten metals etc.	.4	Mixing of beverages
	—536.24	059	Bottling and final treatment before consumption
.989	Heating by means of chemical reactions (heat of reaction)		—683.5
.99	Heat recovery Use of natural heat. Prevention of heat loss. Insulation		
	—62-68; 620.97; 621.186.8; 621 577; 662.957	Principal divisions	
.992 8	Combustion control and testing	663.1	MICROBIOLOGICAL INDUSTRIES. SCIENCE AND TECHNIQUE OF APPLIED MICROBIOLOGY. APPLIED MYCOLOGY
.82	Control and testing in the combustion chamber		—577 15; 579.6; 582.28; 637.146; 66.098
84	Control and testing of combustion gas, flue gas	.12	Yeasts in general. Brewing yeast. Ascending and descending yeasts
.994	Utilization of waste gas		—664.872
.995	Heat storage in general	.13	Pure yeast. Equipment for yeast culture Pure culture apparatus
	—662.925; 662.957	.14	Fermentation of yeast Baker's yeast Pressed yeast. Nutritional yeast
997	Utilization of heat from natural phenomena Use of geothermal energy. Volcanic heat. Hot springs, geysers. Solar heat		663.14; 636.087.2 Yeast as animal fodder
	—620.91; 621.472; 697.329	Special auxiliary subdivisions	
.998	Industrial heat insulation and insulators. Heat loss	663.14 031	Raw materials (and their treatment)
	—66.043.2; 662.614; 662.926	.2	Carbon compounds
663	INDUSTRIAL MICROBIOLOGY. INDUSTRIAL MYCOLOGY. ZYMURGY, FERMENTATION INDUSTRY. BEVERAGE INDUSTRY. STIMULANT INDUSTRY	3	Nitrogen compounds
	—178; 351.761; 579; 613.3; 613.8; 641.87	.4	Nutrient salts (except nitrogen salts) and acids (either as additives or produced by fermentation)
Special auxiliary subdivisions			Preservation of yeast and fermentation liquors
	<i>The .03 auxiliaries are applicable only in 663.1/5</i>	.036	Processes and equipment for treatment of yeast
663.031	Raw materials, secondary materials and their preparation. Milling. Grinding. Crushing. Water treatment. Steam treatment	.038	Aftertreatment to increase fermentative capacity and other properties
.1	Ferments	.3	Defects of yeast, and means of improvement
	663.031.1 ≈ 663.1	5	Flocculation
.2/4	Raw materials	.7	Conversion of brewer's and distiller's yeast into baker's yeast
	663.031.2/4 ≈ 663.14.031.2/4	039 3	Factors affecting fermentation (e.g. concentration, acidity, pressure, temperature)
		.4	Foam, froth formation (and measures affecting it)
		Principal divisions	
		663.142	Fermentation processes without aeration
		.143	Viennese method
		.15	Fermentation processes with aeration
			Industrial fermentation processes. Production of enzymes (other than by yeast)
			663.15 ≈ 577.15
			663.15:661.715 Production of hydrocarbons by fermentation
		.16	Vitamin production by fermentation
			663.16 ≈ 577.16

663.18	Industrial bacteriology. Various processes using microorganisms (microbes) —579	663.28	Wine-producing establishments, premises. Vintners, wine cellars etc. Individual premises. Fermentation rooms. Wine cellars, stores, shops
663.2	WINE. WINEMAKING. OENOLOGY —634.8	663.3	CIDER. PERRY. OTHER FRUIT WINES. SAP WINES —634.1; 663.81
.21	Wines in general. Wines according to origin 663.21(44) French wines		Apple wine. Cider
.22	Special wines. Imitation wines	.31	Non-alcoholic cider. Apple juice
.221	White wines	.316	Alcoholic cider
.222	Rosé wines	.317	Pear wine. Perry
.223	Sparkling wines. Champagnes	.34	Non-alcoholic perry. Pear juice
.224	Muscatel wines	.346	Alcoholic perry
.226	Raisin wines	.347	Berry wines (e.g. redcurrant, gooseberry, strawberry wines)
.233	Artificial wines produced by fermentation	.35	Other fruit wines. Cherry, rose-hip, rhubarb wines. Mixed fruit wines
.236	Non-alcoholic wine substitutes. Grape juice, must	.36	Sap wines
.24	Wine products	.37	Wood-sap wines (e.g. birch-sap wine)
.241	Brandy. Cognac —663.55; 663.83	.373	Wines from sap of flowering shoots (e.g. palm wines, agave wine (Mexican pulque))
.242	Wine vinegar —661.731	.374	Honey wine. Mead —638.16
.25	Winemaking	.393	
.251	Characteristics and properties of wine	663.4	BEERS. BREWING. MALTING
.252	Winemaking proper		Raw materials for beer
.1	Grape harvesting. Grape picking. Grape preparation, storage, drying, stripping	.42	Cereals for brewing. Brewing barley. Germinative capacity —633.1
.2	Crushing and pressing of grapes. Extraction of must	.421	Barley substitutes. Rice. Maize. Starch flour. Sugar. Wheat. Oats
.3	Operations before fermentation. Heating and cooling of must. Sugaring, chaptalization. Addition of alcohol, removal of acid etc.	.422	Hops. Lupulin etc. —633.791
.4	Fermentation of wine. Alcoholic ferments —663.12	.423	Hop substitutes. Bitter barks, woods, leaves. Pungent buds and berries. Quassia, wormwood, aloes etc.
5	Racking, tunning of wine	.424	Malt preparation. Malting —664.786
6	Pressurage (second pressing). Decantation. Dregs, lees —663.26	.43	Washing and steeping of barley for malting. Treatment of steep water
253	Constituents of wine (e.g. alcohol, sugar, acids, esters)	432	Steeps. Steeping tanks. Aerating, washing devices etc.
.255	Winemaking equipment and materials. Cellarage equipment	033	Germination, sprouting of barley. Production of green malt
.1	Grape stalking and stripping devices, e.g. combs. Grape crushing and squeezing devices. Grape mills	433	Malting processes and equipment
.3	Apparatus for treatment of must. Apparatus for sulphite treatment, sulphite removal, concentration	.1	Drying and kilning of green malt
4	Wine presses	434	Malt cleaning devices. Dressing, screening and polishing devices for malt. Sleeve filters.
5	Wine pumps	436	Dust filters. Husk removal
.6	Wine filters	439	Products of malting. Malts. Crystal malt. Coloured malt, black malt etc.
.7	Pasteurization equipment. Wine boilers, sterilizers	44	Preparation of wort and beer
256	Preservation and storage of wine	442	Grinding or crushing of malt. Grist cases. Malt mills. Crushed-malt hoppers
.1	Wine preservation processes. Pasteurization of wine. Chemical preservation of wine	443	Mashing and brewing
.2	Storage of wine. Wine vessels. Wine vats, casks, bottles	.2	Mashing equipment. Coppers. Fining vats, lauter tubs
27	Preparation and maintenance of wine vessels. Cleaning, washing, sulphurization etc.	3	Brewing by infusion. Successive mashes. Small beer
257	Maintenance and improvement of wine	.4	Brewing by decoction. Various methods, e.g. Bavarian method (Munich method), Swabian method (Augsburg- Nuremburg method)
1	Drawing off of wine	444	Boiling and hopping of wort. Wort boilers
2	Filtering of wine	445	Cooling of wort
3	Clarifying, fining of wine	45	Fermentation of wort. Storage, lagering
4	Plastering of wine. Muting, sulphite treatment of wine	451	Spontaneous fermentation
258	Defects, deterioration, adulteration of wine	452	Fermentation by addition. Bottom fermentation. Production of ordinary beers, lagers, export beers
.2	Natural defects of wine	46	Preservation and other treatments
3	Accidental adulteration of wine. Flavour defects, harsh taste etc. Contamination by vessel. Woody taste, corkiness etc.	.461	Preservation of beer. Pasteurization of beer.
4	Wine diseases (e.g. mould in wine)	.465	Chemical preservation of beer
8	Adulteration of wine (deliberate) and its control —343.347; 614.3		Preparation for retail sale. Transfer to bottles, containers —663.059; 683.5
.26	Use of winemaking residues (rapes, grape refuse, marc, lees etc.). Products, e.g. afterwine —663.252.6	.47	Production of particular kinds of beer
		.471	English beers. Stout. Porter. Brown ale. Light ale. Pale ale. Bitter

663.472	German beers. Austrian beers. German March beer, Weissbier. Munich, Pilsen, Dortmund beers etc.	663.642	Artificial mineral water. Carbonated table water (soda water) —613.38
.473	Belgian beers. Lambic, Gueuse-Lambic etc.	.646	Natural mineral water as commercial product
.474	French beers	.648	Artificial brine, seawater as commercial product —663.635
.475	Rice beers. Japanese sake	.67	Edible ice. Ice cream
.476	Sorghum beers. Millet beers. African pombe. Rumanian braga	.672	Natural ice. Ice collection, transport and storage —551.32
.477	American maize beers	.673	Manufactured ice. Artificially produced ice —621.56/.58
.479.1	Kvass (Russian rye beer)	.674	Flavoured ices. Ice cream
48	Brewery wastes, residues. Brewery by-products. Draff. Malt combings etc. —631.879.3		
663 5	POTABLE ALCOHOL. SPIRITUOUS LIQUORS (ARDENT SPIRITS). ALCOHOL DISTILLATION, REFINING —661.72; 663.241	663 8	MAIN INGREDIENTS FOR THE BLENDING OF DRINKS. FRUIT AND VEGETABLE JUICES. SYRUPS. LIQUEURS. SOFT DRINKS <i>The .03 auxiliaries listed at 663 are not applicable here</i> 663.8.051 Additions for improvement of flavour. Aromatic supplements (for blended drinks) .054 Diluents (for blended drinks)
.51	Alcohol. Nature, formation, types of alcohol. Spirits in general	.81	Fruit juices. Vegetable juices Syrups for soft drinks —663.236; 663.3; 664.857
.52	Alcohol production processes generally	.812	Sugar syrups as bases for blended drinks —663.031.8; 664.14
.53	Alcohol distilleries, refineries	.813	Natural fruit and vegetable juices 663.813:634.711 Raspberry juice
.531	Conversion of amylaceous (starch-containing) and cellulosic substances into sugar. Saccharification of malt, wood, peat	.814	Berry syrups 663.814:634.711 Raspberry syrup
.531	Processing of grain. Production of sacchariferous mash. Maceration, boiling etc. —664.7	.815	Syrups from large fruits (e.g. lemon and orange syrups)
.532	Processing of roots, tubers, starch	.816	Syrups from flowers, blossoms
.533	Mould treatment of amyliiferous substances	817	Almond syrup. Almond milk. Orgeat syrup
.534	Saccharification of cellulosic substances. Saccharification of wood	82	Drinks containing solid fruit (or pieces of fruit)
.54	Production of alcoholic liquors from sacchariferous substances	83	Liqueurs (obtained by infusion in alcohol of fruits or plants) —663.241; 663.551.5
.541	Processing of sugar beet	831	Anisette
.542	Processing of girasols (Jerusalem artichokes)	832	Chartreuse (and similar liqueurs)
.543	Processing of residues from sugar refineries. Production of sugar spirits, rum —664.153	.833	Liqueurs from fruit stones, nuts
.55	Distillation. Rectification. Treatment of liquors containing formed alcohol —66.048	.834	Various cream liqueurs
.551.1	Simple distillation	.837	Apertifs. Bitters, quinines, vermouths etc.
.2	Distillation with rectification	85	Synthetic soft drinks
.4	Rectification of crude alcohol	.86	Sparkling, fizzy soft drinks —663.64
.5	Production of particular spirituous liquors —663.241; 663.543; 663.83 <i>Details by A/Z or :58..., :63..., :663 etc., e.g.</i> 663.551.5:633.1 Grain spirits. Gin, vodka etc. :634.21 Apricot brandy :663.43 Malt spirit. Whisky <i>cf. Table (e) (1-82)</i>	.865	Solid preparations for the production of fizzy soft drinks
6	Distillation residues (e.g. from distillation of amylaceous substances)	.87	Mixed drinks. Grogs, cocktails etc
7	Fusel. Fusel oil —661.725.2	.88	Health drinks. Liquorice water. Tonics etc.
663 6	WATER FOR BEVERAGES AND OTHER INDUSTRIAL USES. MINERAL WATERS. MEDICINAL WATERS. EDIBLE ICE —543.3; 553.7; 556.3; 613.3; 628.1; 641.87 <i>The .03 auxiliaries listed at 663 are not applicable here</i>	663.9	CHOCOLATE. COCOA. COFFEE. TEA. TOBACCO —633.7; 641.87 <i>The .03 auxiliaries listed at 663 are not applicable here (see also the note at 663.91)</i>
.634	Distilled water as commercial product —628.16.048	91	Cocoa. Chocolate —633.74; 641.87 <i>Neither the .03 nor the .05 auxiliaries listed at 663 are applicable here</i>
.635	Brine, seawater as commercial product —551.464.09; 628.113.5; 628.165; 663.648		Special auxiliary subdivisions
64	Mineral and medicinal waters as beverages (effervescent and still) 663.64.05 Additions, preservation and aftertreatment of mineral and medicinal waters .057 Carbonation. Aeration .059 Bottling and final treatment before consumption	663.91.05	Machinery, apparatus and equipment for production of cocoa products
		Principal divisions	
		663.911	Raw materials. Auxiliary materials
		.1	Raw materials of vegetable origin (e.g. cocoa, pure carbohydrates, alcohols)
		.3	Raw materials of animal origin (e.g. milk)
		.5	Auxiliary materials
		913	Preparation of raw materials
		.1	Preparation of raw cocoa. Disinfection, cleaning. Drying, roasting, cooling of cocoa beans. Breaking, shelling, reduction of cocoa —621.926

663.913.5	Preparation of other raw materials.	663.96	Tea substitutes. Tea-like products
	Preparation of sugar, nuts, milk, fruit etc.	.97	Tobacco industry
.7	Mixing and kneading of ingredients		—178.7; 351.761; 613.84; 633.71; 688.9
.914	Production of cocoa powder, cocoa butter and cocoa-containing preparations	Special auxiliary subdivisions	
.1	Defatting the cocoa mass	663.97.05	Tobacco processes and equipment
.2	Treatment of defatted cocoa	.051	Preparation of raw tobacco
.3	Solubilization of cocoa	.1	Pretreatment. Drying of tobacco. Making into hands. Fermentation.
.4	Preparation of cocoa butter	.6	Sorting, screening, cleaning of tobacco.
.5	Production of cocoa-containing preparations (e.g. cocoa powders, pastes)	.7	Blending of tobaccos
.915	Production of chocolate	.8	Roasting and cooling of tobacco
.1	Refining of crude chocolate		Chemical treatment of tobacco and tobacco products. Nicotine extraction. Tobacco preservation. Improvement of tobacco colour, aroma etc.
.2	Refining of chocolate mass	.052	Treatment of tobacco for snuff, chewing, smoking
.3	Moulding of chocolate	.3	Comminution, shredding of tobacco
.916	Production of chocolate confectionery, sweets (chocolates)	.4	Tobacco stripping, deribbing. Flattening the ribs
	—664.14; 664.68	.5	Machines for cutting tobacco
.1	Production of basic compositions (e.g. fondant, caramel, sugary compositions)	.6	Machines for spinning, dressing tobacco
.2	Moulding of chocolate confectionery	.053	Machines and equipment for cigar production
.3	Enrobing, coating of chocolate confectionery	.054	Machines and equipment for cigarette production
.5	Decoration of chocolate confectionery	.2	Cigarette-filling machines with continuous extruder or pressure chamber
.917	Extraction of theobromine	.4	Cigarette machines with continuous rod of formed tobacco
.918	Products of the cocoa and chocolate industry	.056	Cutting equipment for cigars and cigarettes
.1	Intermediate cocoa products. Cocoa mass.	.057	Production of cigarette wrappers, papers.
	Cocoa press cakes. Cocoa butter		Production of filters, tips, mouthpieces
.2	Cocoa products. Cocoa powder. Cocoa concentrates, extracts. Others	Principal divisions	
.3	Cocoa by-products (shells etc.)	663.97.1	Snuff
.4	Kinds of chocolate	.972	Chewing tobacco
.5	Chocolate confectionery, sweets (chocolates)	.973	Cut tobacco in general. Smoking tobacco
.92	Cocoa substitutes. Kola etc.	.2	Tobacco according to width and length of strands. Cut of tobacco (fine, coarse etc.)
	—633.76	.4	Tobacco mixtures, blends
.93	Coffee. Caffeine	.5	Pressed tobacco, plug
	—633.73; 641.87	.7	Nicotine-free tobacco (denicotinized tobacco)
.931	Commercial varieties of coffee. Green coffee	.974	Cigarettes
.932	Drying of coffee beans. Storage and transport	.975	Cigars. Cigarillos. Cheroots
.933	Coffee processing	.976	Special cigars and cigarettes Filter-tipped cigars and cigarettes
.1	Pretreatment of coffee beans	.977	Chemical treatment of tobacco smoke.
.2	Dehusking, hulling, stoning of coffee beans.	.98	Smoke dispellers
.3	Sifting	.99	Tobacco substitutes
.4	Blending of coffees		Industries based on various stimulant plant products. Narcotics
.6	Coffee roasting (and roasters)	.991	—178.8; 351.761; 613.83; 615.212; 633.888
.7	Glazing, polishing of coffee beans. Coating, impregnating of coffee beans	.992	Opium
.935	Grinding of coffee beans		—633.75
	—621.927.7		Hashish. Marijuana
.937	Caffeine removal. Decaffeination		—633.522
.938	Deterioration of coffee (e.g. mildewing) (Deliberate) adulteration of coffee	664	PRODUCTION AND PRESERVATION OF SOLID FOODSTUFFS
	Production of caffeine		—667.777
.94	Coffee products. Roasted coffee.	664.1	SUGAR. MOLASSES. GLUCOSE ETC
.941	Decaffeinated coffee. Coffee essences, extracts. Solid coffee preparations. Instant coffee etc.		<i>The -4 auxiliaries listed under 62 are relevant here (e.g. -492.3)</i>
.94	Coffee substitutes Coffee supplements	Special auxiliary subdivisions	
.941	Chicory	664.1.03	Extraction and purification of juice
	—633.78	.031	—633.6
.942	Cereal coffee Acorn coffee		Preliminary treatment of sugar plants.
.95	Tea Theine	.032	Washing. Heat treatment (of whole plants)
	—633.72; 641.87	.033	—664.1.04
.951	Commercial varieties of tea Black tea Green tea	.034	Comminution, cutting, grating of sugar plants
.952	Various kinds of tea and their manufacture	.035	Juice extraction from sugar plants. Extracting equipment
.1	General manufacturing processes. Withering, steaming, panning, rolling, fermentation of tea Tea firing, polishing. Tea sorting, cutting, sifting, grading. Bulking and packing of tea	.037	Extraction by pressing, by milling. Rolling and crushing mills etc.
.7	Kinds of tea according to special processes. Brick tea. Broken tea. Tea fluff, dust. Others		Other extraction methods. Extraction by diffusion, centrifuging, maceration. Use of solvents
.954	Blending of commercial teas. Tea tasting		Purification of juice in general. Mechanical purification. Filtering
.3	Blending methods. Cutting and mixing of teas		
.955.1	Tea blends		
.2	Deterioration of tea		
.958.7	Adulteration of tea. Artificial colouring.		
.8	Blending with other leaves etc.		
	Tea essences		
	Solid extracts and other tea preparations		

664.1.038	Treatment of juice with chemical agents. Clarification, defecation of sugar juices (e.g. treatment with lime, carbon dioxide, sulphur dioxide)	664.144	Filled sweets. Bonbons. Gums (chewing gum etc.). Fondants. Dragees. Pastilles. Lozenges. Sweets with soft or nut centres etc.
	—66.09		
.8	Treatment and extraction of clarification residues. Treatment of waste-waters (sweet waters)	.145	Marzipan, nougat etc.
		.146	Caramelized confectionery. Toffees
039	Treatment of juice by physical or physicochemical methods	.147	Barley-sugar
.04	Heat treatment (of juice). Thermal processes	.148	Sweetened liquorice. Liquorice lozenges, pomfret-cakes. Cough sweets Throat lozenges etc.
	664.1.04 $\approx$ 66.04, e.g.	15	Molasses. Treacle. Syrup
	664.1.048 Distillation. Evaporation	151.1	Cane sugar molasses
.05	Filtration of syrup. Boiling, refining, crystallization	.2	Beet sugar molasses
052	Filtration of syrup	152	Extraction of sugar from molasses
.053	Boiling of filtered syrup. Boiling methods	.153	Processing of molasses to obtain alcohol, rum etc.
.054	Crystallization of syrup		—663.543
.055	Separation of sugar from syrup Centrifuging	.154	Production of foodstuffs using molasses
	—66.067.5	157	Molasses syrups. Treacle
.056	Removal of harmful substances	.16	Dextrin Monosaccharides (monoses)
.057	Sugar refining. Refined, white sugar		Glucose
.058	Candy sugar	.161	Dextrin
Principal divisions		.1	Dextrin production by roasting, torrefaction
664.11	Cane sugar	2	Roasting with use of chemicals
.111	Sugar cane as raw material	.3	Dextrin production using dilute chemicals (without roasting)
	—633.61	.4	Dextrin production using diastases. Biological methods
.113	Treatment of bagasse and cane juice	.7	Kinds of dextrin according to physical properties Coloured dextrin White dextrin (soluble, insoluble)
	—662.636	.8	Kinds of dextrin according to source, origin
.117	Sugar-cane products. Juice Crude sugar. Brown sugars. Various kinds of cane sugar		664.161 8 $\approx$ 664.2
	For molasses — 664.15	.162	Glucose. Dextrose (grape-sugar)
.12	Beet sugar	Special auxiliary subdivisions	
.121	Sugar beet as raw material	664.162 031	Preliminary treatment of glucose sources.
	—633.63		Preparation of raw materials Preparation of starch milk
.123	Treatment of slices, cossettes Extraction	.036	Hydrolysis of starch milk. Neutralization.
	Drying	.037	Saccharification. Conversion equipment
.126	Intermediate sugar-beet products. Juice		Filtration of hydrolysed starch (after neutralization)
	Boiling products. Run-off syrups		664 162 037 $\approx$ 66.067
127	Sugar-beet products. Crude sugar Various kinds of beet sugar	038	Colour development during preparation
.13	Various other sugars		Precautions against colour development
	—633.64/.65; 664.16	048	Distillation Evaporation. Concentration of glucose
.132	Maple sugar		664 162 048 $\approx$ 66 048
.133	Palm sugar	052	Filtration of glucose (after concentration)
.134	Sorghum sugar. Durra sugar		664 162.052 $\approx$ 66.067
.135	Milk sugar (e.g. sugar from buttermilk)	.065	Solidification, crystallization of glucose
.136	Malt sugar (maltose)		664.162.065 $\approx$ 66.065
.138	Raffinose. Melitose	Principal divisions	
.14	Processing of sugar. Sugar products. Sugar confectionery. Sweets	664.162 1	Glucose production from potato starch
	—663.812	.2	Glucose production from maize starch
.141	Casting, moulding, cutting of sugar	.4	Glucose production from rice, tapioca, other starches
.6	Manufacture of sugarloaves. Loaf sugar		664 162 4 $\approx$ 664.2
.7	Production of sugar in lumps, cubes, blocks (except sugarloaves)	6	Glucose production from wood, from cellulose
.81	Production of low-grade loaf sugar. Chunks, bastard sugar	7	Crystalline and semi-crystalline syrups
.82	Production of low-grade powdered sugar	.164	Mixtures containing glucose. Invert sugar. Artificial honey
	Ground sugar		—638.16
.143	Sugar confectionery (sweets) in general	.165	Various hexoses. Galactose. Fructose etc.
.1	Boiling of sugar. Evaporating pans. Equipment for cold production of syrup	664 2	STARCH. AMYLACEOUS MATERIALS
	Sugar syrups		—633.68; 648.18
.2	Machines and equipment for drawing sugar	Special auxiliary subdivisions	
.3	Kneaders and mixers for confectionery. Machines for preparing, treating raw materials	664 2.03	Treatment of starch sources before desiccation
.4	Steaming equipment. Crystallizing, candying equipment. Lozenge pans		—664.7
.5	Moulds for confectionery	031	Preliminary treatment (before crushing and grinding). Washing, cleaning, maceration of starch sources
.6	Moulding, forming machines for confectionery. Combined moulding and wrapping machines	.032	Comminution, crushing, grinding of starch sources. Comminution with addition of chemicals
.7	Machines for filled sweets (sugar-coated sweets): pralines, dragées, bonbons	.033	Processes of opening-up of cells by fermentation
.144/.149	Various sugar confectionery products		
	—663.916; 664.8.035.5		

664.2.034	Methods of increasing starch yield. Methods of eliminating other substances	664.4	MINERAL FOODSTUFFS. EDIBLE SALT
.035	Washing of starch pulp. Cylindrical sieves. Sets of sieves	.41	—613.27
.036	Bleaching processes for starch pulp. Other intermediate treatment		Edible salt (sodium chloride). Cooking salt. Table salt
.037	Separation of crude starch	.44	—549.451.1; 553.631; 622.36; 661.422; 661.833.321
.038	Purification of crude starch. Scrubbers for starch	.48	Substitutes for sodium chloride. Salt mixtures (e.g. with phosphates)
.047	Drying of starch		Various mineral foodstuffs (including those with organic additives). Calcium salts
	664.2.047 ≈ 66.047		
.05	Operations after drying of starch	664.5	SPOICES. CONDIMENTS
.051	Deodorization of starch		—613.291; 633.82/.84; 635.7; 641.88
.052	Bleaching of dry starch	.51	Pepper (<i>Piper</i> species)
.053	Blueing of starch	.515	Pepper substitutes. Adulterations of pepper
.054	Screening, bolting, grinding of starch	.52	Hot and aromatic peppers (<i>Capsicum</i> , <i>Pimenta</i> species)
.055	Forming, milling, pearling of starch. Various products. Powdered, crystal, lump starch. Pearl starch. Starch flakes etc.	.521	Hot peppers. Chillies. Paprika. Cayenne pepper
.057	Liquid and semi-liquid starch. Suspensions of starch in water (starch milk). Starch paste	.522	Aromatic peppers. Allspice (pimento). Tabasco pepper etc.
.058	Preparation of thin-boiling starch (soluble starch)	.53	Mustard
.2	Preparation by physical and mechanical means	.54	Nutmeg
.4	Preparation by chemical methods	.55	Ginger
.059	Preparation of starch that swells in cold water (pre-gelatinized starch)	.56	Cinnamon. Cassia
		.563	Cinnamon substitutes. Adulterations of cinnamon
		.57	Vanilla
Principal divisions		.572	Vanilla substitutes. Adulterations of vanilla
664.22	Potato starch (farina)	.58	Seasoning plants preserved in vinegar. Gherkins. Capers. Pickles. Preserved olives. Other preserved vegetables.
	—633.491		—664.8
.23	Cereal starches in general		
	—633.1		
.231	Wheat starch		
.232	Rye starch	664.6/.7	TECHNOLOGY AND PROCESSING OF CEREAL GRAINS. MILLING, BAKING ETC.
.233	Buckwheat starch. Oat starch. Barley starch		Baking. Bread. Flour confectionery
.236	Gluten	.6	Bakeries. Kinds of bakery. Bakery equipment. General questions
.24	Rice starch	.61	Raw and intermediate materials for baked products
.25	Maize starch (corn starch)		
.26	Starches from various fruits. Nut starches. Soya starch. Bean starch. Lentil starch	.64	
.27	Other edible starches. Arrowroot starch. Cassava starch (Manioc starch. Tapioca starch). Sago starch. Banana starch. Yam starch. Canna starch. Starches from various stems, stalks, tubers, bulbs		
	—633.68	Special auxiliary subdivisions	
.28	Starch derivatives	664.64.016	Non-chemical properties of bakery materials. Quality, its determination and evaluation
.29	Various products associated with starch. Pectin	.3	Physical properties. Structure, particle size of bakery materials. Colour, content of other flours etc.
		.7	Biological properties. Taste, aroma, nutritive value of bakery materials
		.8	Technological properties. Baking quality etc.
664.3	EDIBLE OILS AND FATS. MARGARINE. PROTEIN FOODSTUFFS	.019	Spoiling of bakery materials. Deterioration, discoloration etc.
Special auxiliary subdivisions		Principal divisions	
664.3.032	Plant and equipment for oil and fat processing etc. Emulsifying and homogenizing equipment. Churns for fat products etc. Washing equipment. Moulds and cutters	664.641	Meal and flour. Composition, selection etc.
.033	Processes Emulsifying Churning Washing, working, mixing of fat products Salting. Pasteurization, sterilization Moulding and cutting of fat products. Colouring, flavouring etc	.1	—664.761
		.12	Cereal flours
		.14	—633.1
		.15	Wheat flour
		.18	Rye flour
		.2	Maize flour
		.4	Rice flour
		.642	Other flours. Potato flour. Soya flour. Buckwheat flour etc.
		.643	—633.34, 633.491 etc.
		.644	Mixtures of cereal flour with other flours
Principal divisions			Baker's yeast. Leaven
664.31	Edible oils and fats in general		—663.12
.314	Edible oils in general		Artificial leavening agents. Baking powders
.315	Edible fats in general		—664.654.2
.32	Edible animal oils and fats		Other raw materials for baked products.
.324	Edible animal oils. Animal-oil emulsions		Flour improvers
.325	Edible animal fats. Margarine of animal origin		—664.746
.33	Edible vegetable fats. Margarine of vegetable origin	.1	Salt
.34	Edible vegetable oils. Vegetable-oil emulsions. Mayonnaise	.2	—664.41
.35	Mineral oils and fats used in the food industry	.3	Yeast food. Fermentation stimulants. Mineral products
.36	Mixtures of edible fats (e.g. mixtures of butter and margarine)	.4	Fatty materials. Shortening
.38	Protein foodstuffs	.5	Protein-rich materials. Milk. Dried milk (milk powder). Eggs. Egg white (albumen)
			Enzyme-rich materials. Amylase preparations.

664.644.5 (cont'd)	Malt extracts. Fungal amylases. Proteinase preparations. Other enzyme-rich materials	664 664.3	Dry baked products Toast Rusks.
.6	Carbohydrate-rich materials. Sugars.	4	Crispbread
.7	Saccharified flours	.665	Fat-rich products. Scones. Brioche.
.8	Water-absorbent materials. Dextrinized flours. Gums. Alginates. Carob seed flour etc	.667	Butterstollen
.646	Softeners and emulsifiers. Polyethylene stearate. Lecithin etc.	668	Bread-like products with special properties or for dietetic purposes. Dietetic bread
.647	Dusting powders for baking pans. Pan grease. Pan coatings	.68	Children's rusks etc.
6	Various bakery materials. Emulsion-type improvers for white bread. Semi-finished products as fillings. Pastry fillers	681	—613.2; 615.874; 664 681
.65	Cake-mixes (ready-made)	682	Gingerbread. Other spiced breads
	Baking (preparation, procedure and plant)		Bread-like feeding stuffs for animals (e.g. dog biscuits)
	Bread. Flour confectionery		—636 084/ 087
Special auxiliary subdivision			Manufacture and treatment of biscuits, wafers, pastries, cakes, puddings
664.65.05	Bakery machinery		Biscuits Wafers. Waffles. Crackers. Matzos
Principal divisions			Dry flour confectionery products. Pastries (Sweet pastries Salted pastries Cheese pastries)
664.651	Preparation of raw materials and ingredients	.683	Fancy flour confectionery Cakes Fancy pastries
.652	Addition of leavening agents	.6	Oven-baked products from batter (not dry)
.653	Mixing, kneading and handling of dough	.7	Cakes
.1	Mixing and kneading of dough	684	Fried products from dough or batter. Fritters. Pancakes. Doughnuts etc.
.3	Weighing and dividing of dough	685	Filled bakery products. Pies Tarts. Pastries
4	Moulding and treatment of dough (especially for breadmaking)	.2	Pastry rolls with fillings (e.g. sausage rolls)
	Details by :664.66... and :664.68 ., e.g. 664.653.4:664.683.6 For cake production	.4	Special baked products without flour
.5	Direct conversion of grain into bread	.6	—664.14
.654	Natural and artificial leavening of dough.	.686	Cachets. Altar bread Communion wafers etc
	Fermentation, proving of dough	.69	Products from almond paste, coconut paste etc.
.1	—663.1 and references there	691	Meringues
.2	Fermentation of dough with biological agents (e.g. fermentation with yeast, with leaven)	692	Puddings and their ingredients
.3	Leavening of dough by chemical and physical means (e.g. leavening with baking powder, with solid carbon dioxide)	694	—641.85
.6	—664.643	696	Cereal paste products. Pasta Processed cereals
.655	Accelerated fermentation of dough. Addition of fermentation stimulants (yeast foods)	.7	Raw materials for pasta
	Fermentation rooms and cabinets for dough		Manufacturing processes for pasta
	The baking process. Other finishing of bakery products. Influence of these processes on the products		Pasta products. Macaroni. Vermicelli.
	664.655.041 Bakery ovens (from 66.041)		Spaghetti. Others. Noodles etc.
.1	Baking in ovens		Processed cereals. Ready-to-serve cereals.
.3	Frying in fat		Breakfast cereals (flaked, puffed, shredded cereals, granules etc.)
.5	Surface treatment of products after baking. Washing etc.		—664.78
.6	Utensils and equipment for baking Baking pans, boards etc.		Cereal technology. Flour and corn milling. Grain processing
.656	Treatment of baked products. Cooling, freezing. Filling. Decorating. Cutting, wrapping etc.		—621.927; 631.36, e.g. 631 363 2; 663 531; 664.2.03
.657	Prevention of staleness in baked products		Milling of wheat and rye. Large and small mills. Complete installations (flour mills)
	Treatment of stale products		
.66	—664.66.019		Special auxiliary subdivisions
	Bakery products in general Bread and allied products		664.71-11 Wheat
	—664.68		-12 Rye
Special auxiliary subdivisions			664 71.05 Milling machinery
664.66.016/.019	Properties and spoiling of bakery products		Principal divisions
.03	664.66.016/.019 ≈ 664.64.016/.019		664 72 Storage, cleaning and conditioning of grain
	Storage and preservation of bakery products		723 Cleaning of grain before storage. Aspiration and drying of grain
Principal divisions			—631.365
664.661	Bread, rolls and buns exclusively or mainly from whole-grain wheat, wholemeal wheat or wheat flour. Wholemeal bread. White bread. Bread rolls. Currant buns etc.		724 Storage of grain
.662	Bread exclusively or mainly from whole-grain rye, rye wholemeal or rye flour. Rye bread. Pumpernickel		—631.24; 631.563; 725 35/ 36
.663	Bread from other meals or flours. Barley bread. Millet bread. Maize bread. Others		726 Final cleaning of grain (just before milling)
.664	Bread-like products requiring special process or recipe		Aspiration, separation, washing of grain.
.2	—664.68		Other processes
	Unleavened bread		Special chemical and physical treatment of grain. Bleaching of whole grain. Sterilization of grain. Entoleters
			Grinding of grain. Corn milling
			—621.926/ 927
			Primitive grinding methods. Pestle and mortar. Handmills with discs or rolls
			Grinding with stones and discs. Millstones
			Grinding with rollers. Roller mills. Cylindrical crushers, converters, reducers
			Comminution by pounding, stamping etc.
			Hammer mills
			Deflaking devices (detachers)
			Sifting, grading, purification of milling products. Other flour milling operations
			Sifting, sieving, bolting of flour etc.

664.742	Grading of flour with metal sieves, cloth screens	664.8.031	Food storage in pits, silos, open containers, vessels
.743	Grading and purification of semolina	.032	Food storage in closed containers, vessels.
.746	Treatment of flour to improve baking quality, colour	.033	Enclosed food stores, lofts
	—664.644	.034	Food preservation in a vacuum
.748	Other treatment of milling products.	.035	Food preservation by smoking
	Sterilization, denaturation, enrichment etc.	.1	Food preservation by chemicals
.76	Various products and by-products from milling and cleaning	.2	Preservation by gases
	—663.942	.3	preservation by salting
.761	Flour (as milling product)	.4	Preservation by salting and smoking
	—664.641	.5	Preservation in acids, e.g. vinegar
.762	Semolina		Preservation in sugar syrups. Candyng.
	—664.743	.6	Crystallizing
.764	Bran	.7	—664.144/.149
.765	Germ (cereal germ)		Preservation in alcoholic liquids
	—665.33	.036	Preservation with antiseptics (e.g. formaldehyde, benzoates, salicylates, phenols, borates, sulphites, milk of lime)
.768	Offals. Waste products of milling	.1	Food preservation by heating
.78	Technology of cereals other than wheat and rye. Cereal processing	.2	Preservation by cooking in general
	—636.086; 664.696		Superheating. Sterilization. Autoclaving.
Special auxiliary subdivisions			Aseptic preservation
664.78.01	General principles of cereal processing	.3	—66.046.8
.03	Storage and preservation of cereals	.5	Preservation by pasteurization in general
	—664.724		Heating of food in cans. Preserving cans, tins. Canned food
Principal divisions			—672.46
664.782	Processing of rice. Rice milling		664.8.036.5:543 Chemical examination of canned foods (including analysis of air in cans)
.2	Primitive methods of rice processing. Manual devices. Scalding of rice	.52	Food canning in general
.4	Modern rice-milling processes. Cleaning, drying, husking of rice. Separation. Paddy machines. Polishing of rice		—664.9
.7	Other treatments of rice. Parboiling, conversion, precooking of rice. Malek process	.522	Testing of keeping qualities
.8	Rice products. Rice flour. Milled rice. Parboiled rice. Precooked rice. Rice by-products, e.g. animal feed	.523	Spoilage of canned foods. Bulging of can (swells). Bacteriological examination of canned food
.784	Processing of maize. Maize milling (corn milling)		—614.31; 579.67
.8	Maize products. Maize by-products, e.g. animal feed	.53	Details by :579.8...
.785	Processing of oats. Oat milling	.58	Apparatus for preservation. Can filling and closing machines. Cooking and cooling equipment for canned food
.3	Production of oat flakes. Cleaning, grading, drying of oats. Hulling, separation of hulls and groats. Rolling of groats into flakes	.6	—672.462
.8	Oat products. Rolled oats Oatmeal. Oat by-products, e.g. animal feed	.7	Canned foods in general. Properties, e.g. keeping qualities, and testing
.786	Processing of barley. Barley milling		Heating of food in bottles, jars. Hermetic sealing
	—663.43	.037	—666.17
.3	Production of pot barley and pearl barley. Cleaning, bleaching, separating, hulling of barley. Pearling of barley. Aftertreatment etc.	.1	Heating of food in containers other than cans and bottles
.8	Barley products. Pot barley. Pearl barley. Barley by-products, e.g. animal feed	.5	Food preservation by refrigeration. Storage and transport of refrigerated food
.788	Processing of other cereals and similar grains Processing of sorghum (milo), buckwheat, millet		—621.56/.58; 656.073.44; 66.046.3; 725.35
664 8/ 9	FOOD PRESERVATION TECHNIQUE	.59	Chilling of food. Cool storage (cold storage above freezing). Treatment with ice
8	Preservation of organic edible substances (in general). Preservation of plant, vegetable products	.038	Freezing of food (deep freezing). Freezer storage (cold storage below freezing)
Special auxiliary subdivisions		.039	—621.565
664 8.022	Pretreatment and preparation of raw materials for food preservation	3	Use of frozen foods. Thawing, defrosting
	664.8.022.2/.4 ≈ 66.022.2/.4, e.g.	4	Food preservation by coating
	664.8.022.3 Pretreatment with preservatives and other additives	.5	Other methods of food preservation
6	Pretreatment and preparation of raw foodstuffs	.7	—66.08
	664.8.022.6 ≈ 641.51	.047	Preservation by pressure
.7	Culinary treatment, cooking of prepared foodstuffs for preservation		Preservation by vibration Preservation by ultrasound
	664.8.022.7 ≈ 641.52		Preservation by radiation. Preservation by ultraviolet light
.03	Food storage and preservation		Preservation by biological processes.
	—621.796		Preservation by fermentation
			Preservation by drying (e.g. freeze-drying).
			Desiccation of food
			664.8.047 ≈ 66.047
Principal divisions			
664.83			Preservation of root vegetables, potatoes etc.
.833			Root vegetables, potatoes etc. preserved by storage or by chemicals
			664.833 ≈ 664.8.03

664.834	Root vegetables, potatoes etc. preserved by drying. Desiccated root vegetables, potato etc. (e.g. potato powder)	664.951	Preservation of fish by salting, curing, kippering etc. <i>Details by :639 2...</i>
.84	Preservation of other vegetables, legumes 664.84:635.65 Preservation of pulses	.1	Preliminary storage of fish in ice —639.2.067
.843	Vegetables preserved by particular methods 664.843 ≈ 664.8.03 <i>Further details by :635..., e.g.</i> 664.843.5:635.64 Chemically preserved tomatoes, aubergines, pimientos etc. (664.843.5 derives from 664.8.035)	.2	Salted fish 664.951.2:639.222 Salted herrings (and other fish of the herring family)
.844	Dried vegetables. Desiccated vegetables <i>Details by :635...</i>	.3	Smoked, kippered fish
.848	Preserved edible fungi (including dried fungi). Preserved mushrooms and truffles	.31	Hot-smoked fish 664.951.31:639.222 Hot-smoked herrings (and other fish of the herring family). Kippers
.849	Vegetable pastes, purées <i>Details by :635...</i>	.32	Cold-smoked fish 664.951.32:639.211 Cold-smoked salmon (and other fish of the salmon family)
.85	Preservation of fruit (including nuts). Jams	.4	Fish preserved in oil 664.951.4:639.223 Haddock in oil (and other fish of the haddock family)
.853	Fruits preserved by particular methods 664.853 ≈ 664.8.03 <i>Further details by :634..., e.g.</i> 664.853.5:634.53 Chemically preserved chestnuts (664.853.5 derives from 664.8.035)	.5	Marinated fish. Pickled fish
.854	Fruit preserved by drying. Dried and desiccated fruit <i>Details by :634...</i>	.51	Cold-marinated fish 664.951.51:639.222 Cold-marinated herrings (and other fish of the herring family). Pickled herrings
.856	Conserves produced from fruit juice. Fruit jellies <i>Details by :634...</i>	.53	Boiled marinated fish 664.951.53:639.213 Jellied eels
.857	Fruit syrups. Juice concentrates —663.81; 665.56 <i>Details by :634...</i>	.6	Sterilized fish products. Fishcakes etc. 664.951.6:639.227 Sterilized products of the mackerel family. Sterilized mackerel and tuna products
.858	Jams. Marmalades. Fruit preserves, conserves <i>Details by :634...</i>	.7	Shellfish and crustacean preserves
.86	Preservation of other plant products (e.g. aromatic plants, juice drinks, oils)	.952	Fish sausage. Cod liver sausage. Canned crab sausage
.87	Concentrated foods in general. Vegetable concentrates in particular —664.932	.953	Pastes, spreads of fish and crustaceans. Fish paste
.871	Soup products in general. Soup powders. Soups. Sauces. Gravies	.955	Fish roes (hard and soft roes). Caviar etc.
.872	Yeast preparations and products —663.12	.956	Drying of fish. Dried fish. Stockfish
.874	Malt preparations and products —663.43	.957	Fish meal —631.854
.9	Preservation of animal products —637	.958.2	Fish salads
		.8	Crustacean salads
Special auxiliary subdivisions		665	OILS. FATS. WAXES. ADHESIVES. GUMS. RESINS —547.91
664 9.022	Pretreatment and preparation of raw materials for food preservation 664.9.022 ≈ 664.8.022	665.1	GENERALITIES ON OILS, FATS, WAXES AND PRODUCTS DERIVED FROM THEM 665.1.09 Various chemical processes in treatment of oils, fats, waxes etc. (from 66.09)
.03	Storage and preservation 664.9.03 ≈ 664.8.03	.11	Generalities on products derived from oils, fats and waxes
047	Preservation by drying, desiccation 664.9.047 ≈ 66.047	.112	Characteristic properties. Vitamin content. Nutritional value. Rancidity
Principal divisions		.114	Unsaponifiable matter
664.91	Preservation of meat in general —637.52	.117	Oil cake. Extracted meal. Cake from low-pressure expellers
.92	Dried, smoked and salted meats	.12	Fatty acids. Generalities on stearic acid production
.921	Dried meat. Pemmican etc.	.122	Production of fatty acids. Separation from glycerol. Saponification
.922	Salted meat	.123	Synthesis of fatty acids
.923	Smoked meat	.127	Various fatty-acid products. Saturated and unsaturated fatty acids. Stearine pitch
.93	Canned meat. Preserved meat products	.128	Production of solid fatty acids from liquid fatty acids. Conversion of oleic acid to isooleic acid
.931	Meat preserved in cans. Canned meat. Pressed meat (e.g. corned beef)	.13	Generalities on waxes. Synthetic waxes and wax substitutes —665.92
.932	Concentrated meat products		
.1	Soup products from meat in general —664.871		
.2	Meat extracts, stocks. Liebig's extract. Beef teas, broths. Consommés		
.7	Powdered meat. Meat meal		
.933	Canned meat products. Canned sausage, ham, jellied meat etc.		
.934	Potted meats. Meat pastes		
.935	Meat preserved in vinegar. Pickled meat		
.95	Preservation of fish. Preserved fish products —639.2.068; 665.213/.215		

665.14	Manufacture of candles in general —628.9.045; 665.587	665.527 .528	Essential oils of Metachlamydeae Essential oils of other plants 668.528 ≈ 58
Special auxiliary subdivisions			
665.14.059.2	Preparation of candle wicks	.529	Scents of animal origin. Aromatic animal oils —665.2
.4	Drawing of candles		Ambergris —639.388
.5	Casting of candles. Other forming, shaping of candles	.2 .4	Musk. Civet —637.68
Principal divisions			
665.15	Tallow candles		Principal constituents of essential oils <i>Details by :547..., especially :547.913</i>
.16	Stearine candles (stearic acid candles)	.53	Synthetic essential oils (e.g. artificial musks) Fruit essences —664.857
.17	Paraffin candles. Spermaceti candles		Natural fruit essences
.18	Wax candles. Beeswax candles	.54	Synthetic fruit essences
.194	Flaming torches (links) —628.9.045; 662.126	.56 .562	Perfumery. Perfumes. Perfuming Natural perfumes <i>Details by :665.52...</i>
665.2	OILS, FATS AND WAXES OF ANIMAL ORIGIN —637, e.g. 637.043; 665.529	.564 .57 .572	Synthetic perfumes <i>Details by :547...</i>
.21	Oils of animal origin		Perfuming (of various substances) Cosmetics. Toiletries —613.49; 646.7; 687.5
.213	Fish oils —639.381	.574	Toilet waters. Bath additives. Other perfumed substances
.214	Fish liver oils	.577	Toilet waters. Scented waters
.215	Marine mammalian oils (e.g. whale oil, train-oil)	.58	Deodorants. Antiperspirants
.218	Horn oils. Hoof oils	.582	Bath additives. Bath salts. Bath essences. Bath oils etc.
.22	Fats of animal origin. Tallow		Smelling salts. Smelling sachets. Scent bags
.221	Beef tallow. Mutton tallow. Greaves	.2	Perfumed substances. Perfume pencils, sticks. Cologne, menthol sticks etc.
.222	Pig fat. Lard	.3	Products for care of mouth and teeth.
.223	Fats of various mammals. Horse fat. Deer and reindeer tallow. Camel fat. Bear fat. Others	.4 .7	Dentifrices. Toothpastes
.224	Fats of various birds. Chicken fat. Duck fat. Goose fat. Others	.8	Mouthwashes. Mouthwash tablets etc.
.225	Fats of other creatures. Reptile fats (e.g. tortoise and turtle fat). Fish fats. Insect fats	.583	Skin creams. Make-up. Powders. Nail cosmetics
.228	Carcass fats. Bone fats. Skin fats. Degras —637.53; 675.044	.2 .584	Skin creams. Face lotions. Make-up
.23	Waxes of animal origin		Solid emulsion-based creams. Shaving creams. Creams with additives (Vitamin creams. Hormone creams etc.)
.231	Beeswax —638.171	.2 .22	Liquid emulsion-based creams. Creams with additives (Vitamin creams. Hormone creams etc.)
.237	Waxes from marine mammals. Spermaceti		Skin lotions. Face lotions
.238	Cholesterol. Lanolin. Wool fat (wool grease)	.24	Skin oils, greases, salves
665.3	VEGETABLE OILS, FATS, WAXES, PHOSPHATIDES —633.85; 665.52/.54	.25 .26 .28	Make-up. Face cosmetics —665.584.4
.32	Non-drying vegetable oils		Make-up pencils. Lipsticks
.325.2	Groundnut oil (Peanut oil. Arachis oil)	.288	Powders. Talcum powders. Baby powders.
.327.3	Olive oil	.4	Face powders
.33	Semi-drying vegetable oils. Cereal oils. Soya-bean oil. Castor oil. Others —664.765	.7	Products for nail care, manicure. Nail cosmetics (e.g. nail varnish, varnish removers)
.333.4	Maize oil (corn oil)		Products for hair care
.334.9	Rape oil. Rapeseed, colza oil	.585	Protectives against hair and scalp complaints. Dandruff remedies. Remedies for hair loss, baldness. Hair conditioners
.34	Drying vegetable oils. Linseed oil (flax-seed oil). Sunflower oil. Others	.2	Hair colorants and decolorants. Hair dyes, tints etc. Hair bleaches
.35	Vegetable fats and oils with high melting point. Palm fats. Palm oils. Coconut oil. Coconut butter. Copra. Others	.3	Hair dressings. Pomades. Brilliantines. Hair fixatives. Hair oils, creams etc.
.353.4	Palm oil	.4	Hair cleansers. Shampoos
.36	Vegetable waxes. Carnauba wax (Brazilian wax). Others	.5	Hair lotions
.37	Vegetable phosphates. Lecithin	.6	Permanent wave preparations
.381	Synthetic oils	.7	Hair removers. Depilatories
.382	Sulphonated oils, fats, fatty acids and waxes	.8	Products for skin care after shaving (after-shaves). Styptics etc. —665.584
.383	Modified oils (e.g. boiled, polymerized, oxidized oils)	.9	Aromatic fumigants. Incenses. Fumigant powders, papers. Perfumed candles, charcoal etc. —665.14
665.5	ESSENTIAL OILS. PERFUMERY. COSMETICS		
.52/.54	Essential oils	.587	
.52	Natural essential oils —665.3		
.522	Essential oils of cryptogams		
.523	Essential oils of gymnosperms and conifers		
.524	Essential oils of monocotyledons	665.6	MINERAL OIL TECHNOLOGY. TECHNOLOGY OF PETROLEUM AND ALLIED PRODUCTS —662.75
.525	Essential oils of dicotyledons		Crude oil —622.276/.279
.526	Essential oils of Rosales, Geraniales, Sapindales, Malvales, Parietales, Myrtiflorae and Umbelliflorae	.61	

665.612	Gaseous constituents of crude oil (including natural gas) —662.767; 665.72	665.656	Processes which change the carbon skeleton structure without generally affecting dimensions
.613	Liquid constituents of crude oil	.2	Isomerization to branched chains (aliphatics)
.614	Colloidal mixtures, emulsions in crude oil	.4	Cyclization
.615	Other liquid constituents. Brine in crude oil	.6	Aromatization
.617	Solid constituents of crude oil	.658	Processes mainly not affecting the carbon skeleton nor its dimensions
.62	Treatment of crude oil and natural gas for working-up, conversion and refining	.2	Hydrogenation. Hydrofining
.622	Separation of crude oil from gas, solids and brine	.4	Dehydrogenation
.2	Separation of natural gas from crude oil containing solids and brine	.6	Catalytic processes
.3	Separation of solids from crude oil containing brine	.66	Refining. Removal of unwanted constituents by low-temperature processes
.4	Separation of oil from brine	.662	Physical refining processes
.7	Working-up of crude products in the field	.2	Adsorption, e.g. with fuller's earth, bauxite, silica gel, bleaching earth
.625	Stabilization (fractionation under increased pressure)	.3	Selective extraction processes
.63	Working-up processes for crude oil and its fractions, mainly by distillation 665.63.048 Distillation processes and apparatus Details from 66.048... (e.g. 66.048.3)	.5	Cooling, crystallization and subsequent working-up of the products —665.637.7
.632	Obtaining and working-up of gases. Cracking and reforming of gases	.663	Physicochemical refining processes
.633	Obtaining and working-up of gasolines (motor spirit, petrol)	.664	Chemical refining processes
.2	Light gasoline (boiling point 100°C)	.2	Refining using inorganic chemicals. Alkali washing. Sulphuric-acid refining. Refining with salts. Sweetening processes. Others
.7	Heavy gasoline (naphtha) (boiling range 100–200°C)	.3	Refining using organic chemicals. With amines. With phenoxides With others
.8	Preparation of gasolines with various boiling points (e.g. by redistillation)	.666	Refining processes according to the removed constituents
.634	Obtaining and working-up of kerosine (boiling range 150–250°C)	.2	Removal of specific hydrocarbons
.635	Obtaining and working-up of gas oil (boiling range 200–350°C)	.4	Removal of substances containing sulphur (e.g. of thioalcohols, mercaptans)
.637	Obtaining and working-up of long residues or topped crudes	.5	Removal of other substances containing oxygen (e.g. of naphthenic acids, naphthenates, phenols, cresols)
.2	Paraffinic products For kerosine (commonly called paraffin) — 665.634; 665.74	.6	Removal of substances containing nitrogen
.3	Asphaltic products	.668	Refining according to the required effect (e.g. for bleaching, deodorizing, corrosion prevention)
.4	Mixed-base products	665.7	PRODUCTS OF THE MINERAL OIL INDUSTRY. MINERAL OILS AND SIMILAR PRODUCTS
.5	Fractions of long residue		Special auxiliary subdivisions
.6	Production of lubricating oil —621.892; 665.765	665.7.03	Products according to origin and properties
.7	Production of paraffin wax	.032	Additives influencing properties
.8	Production of asphalt bitumen	.2	Products according to origin
.64	Cracking and reforming —66.092.81 665.64.097.3 Catalysts for cracking and reforming .38 Catalyst regeneration	.5	Unmodified natural products
.642	Thermal cracking and reforming processes	.8	Products derived by modification from natural products (excluding products from mineral oil), e.g. from wood, peat, lignite, coal, oil shale —662.71/.74
.644.2	Catalytic cracking processes	.033	Products according to composition or specific constituents
.4	Catalytic reforming processes (e.g. platforming, cat-forming, Houdriforming, hydroforming, thermofor process)	.2	Hydrocarbon compounds (e.g. paraffins, naphthenes, aromatic and asphaltic products)
.65	Conversion processes other than cracking and reforming. Synthesis. Removal of unwanted constituents by high-temperature processes For processes not listed in 665.652/.658, use the .09 auxiliaries from 66.09, e.g. 665.65.095.81 Nitration	.5	Products according to specific elements contained (e.g. sulphur, nitrogen)
.652	Processes yielding larger molecules (if specific to mineral oil)	.8	Products according to heaviness or lightness (e.g. molecular weight, volatility, melting range, density)
.2	Polymerization	.035	Application properties
.4	Alkylation	.2	Compatibility (e.g. solvent power, cloud point). Capillary and colloidal properties (e.g. surface tension)
.5	Condensation	.3	Burning and ignition properties. (E.g. knocking. Soot formation. Flash point. Illuminating power. Calorific value)
.7	Synthesis from non-mineral oil sources. Fischer-Tropsch synthesis. Hydrogenation of carbon monoxide. Hydrogenation of solids	.5	Chemical and physical stability (E.g. oxidation stability. Storage stability. Heat stability. Colour stability)
.8	Reaction with various chemicals. Halogenation. Oxidation. Sulphurization	.6	Rheological properties (E.g. oiliness, flow, viscosity. Viscosity index. Penetration properties. Ring-and-ball)
.654	Processes yielding smaller molecules. Hydrogenation splitting. Hydrocracking	.7	Optical, organoleptic and other sensory properties (E.g. odour. Taste. Colour. Fluorescence. Toxicity)
		.8	Electrical properties (dielectric, insulating, antistatic properties)

665.7.038	Auxiliary products. Additives which influence properties	665.939.6	Adhesives made from starch
.1	Additives according to composition (e.g. ash-free additives)	.94	Gums. Resins. Gum resins. Oleoresins. Mucilages. Resinous plant products —633.93/.94
.2	Surface-active additives (surfactants). Dispersants. Detergents. Anti-ring-sticking additives. Emulsifiers. Foam or froth inhibitors	.941	Gums in general
.3	Knock-preventing additives. Octane-number improvers. Cetane-number improvers	.1	Water-soluble gums. Arabin. Gum arabic (gum acacia)
.5	Anti-oxidants. Corrosion inhibitors. Wear-preventing additives. Metal passivators and deactivators	.2	Water-insoluble gums. Tragacanth. Bassorin. Bassora gum
.62	Extreme pressure additives. Oiliness additives	.3	Partially water-soluble gums (e.g. cerasin, cherry gum)
.64	Viscosity-index improvers (VI improvers). Pour-point depressants	.943	Birdlime. Fly-glue
		.944	Resins. Gum resins. Oleoresins
		.2	Ester resins. Benzo-resins
		.22	Benzoin
		.23	Balsam resins
		.24	Storax (styrax)
		.26	Aloes. Acaroid resin
		.27	Dragon's blood. Other benzo-resins
		.28	Gum resins from Persian-Afghan Umbelliferae (e.g. asafoetida, ammoniacum)
		.3	Resene-containing resins. Burseraceous resins
		.32	Burseraceous gum resins (e.g. myrrh)
		.33	True resins. True burseraceous resins in general. Elemi
		.34	Anacardiaceous resins
		.35	Dipterocarpaceous resins
		.36	Dammar resins
		.4	Acid resins in general
		.5	Coniferous resins
		.52	Physiological coniferous resins. Primary exudation resins. Sandarac
		.53	Pathological coniferous resins. Secondary exudation resins in general
		.54	Pine resins. Turpentine
		.55	—665.948
		.57	Spruce resin
		.58	Recent fossil coniferous resins
		.6	Fossil coniferous resins (e.g. amber)
		.61	Resins of Caesalpinioideae. Copals
		.62	True copals in general
		.63	East African copals. Trachylobium copals
		.64	West African copals. Copaiba copals
		.68	American copals
		.7	Copaiba balsams
		.72	Various resins of specific composition
		.73	Resinol resins. Guaiac resin
		.74	Aliphatic resins. Lac. Shellac. Other lacs.
		.75	Thapsia resin
		.76	Coloured resins. Gamboge
		.77	Enzyme resins. Japan lac. China lac. Others
		.947	Convolvulaceous resins
		.1	Latex resins
		.2	Resin pitch. Turpentine products
		.3	Resin pitch
		.4	Colophony
		.6	Resins from cellulose pulps. Liquid rosin. Tall oil
		.948	—676.085
			Lignin
			Pine tar
			Essential oils occurring in coniferous oleoresins. Oil of turpentine. Wood turpentine oil. Pine oil
			—665.944.54
665.9	MISCELLANEOUS ORGANIC CHEMICAL INDUSTRIES. POLISHES. ADHESIVES. GUMS AND RESINS	666	GLASS INDUSTRY. CERAMICS. CEMENT AND CONCRETE
.92	Wax polishes and cleaning preparations	666.1	GLASS INDUSTRY. GLASS TECHNOLOGY. GLASS MANUFACTURE IN GENERAL. GLASS IN THE COMPREHENSIVE SENSE
.921	Wax polishes. Similar solid or paste-like materials. Leather blacking		Special auxiliary subdivisions
	—646.65		The .0 special auxiliaries are listed mainly under 66 (only examples are given here); .03 and .05 are developed here under 666.1, but all are applicable throughout 666.11/.28
.922	Liquid wax polishes		666.1.01 Glass engineering science
.926	Preparations for both cleansing and polishing		
.93	Adhesives. Glues. Gelatin. Proteins		
	—637.6		
.931	Glues in general		
	—665.943		
7	Gelatin		
.932	Hide glue. Skin glue		
.933	Bone glue		
.934	Extraction of glues and greases from animal wastes		
.935	Fish glue. Isinglass		
.936	Liquid glue		
.937	Bone processing in general		
.938	Ivory black. Animal charcoal (Bone black. Bone charcoal)		
	—661.183.2; 661.666.2		
.939	Other adhesives		
	—666.968		
.1	Albumins (E.g. ovalbumin. Egg white. Albumen)		
.2	Proteins. Casein		
.3	Vegetable adhesives in general. Algal products		
.4	Various protein derivatives. Amino acids		
.56	Adhesives made from synthetic polycondensation products		
	665.939.56 ≈ 678.6		
.57	Adhesives made from synthetic polymerization products		
	665.939.57 ≈ 678.7		

- 666.1 (cont'd) 666.1.022 Processes and plant for preparation of raw materials in general. Batch preparation
- 666.1.03 **Processes and plant for melting and working glass**
- .031 Glass melting
- .1 Glass melting in general. Processes during glass melting. Sintering. Melting. Fritting. Colouring. Decolouring. Refining and homogenization. Thermal homogenization of the melt before forming
- .2/.6 Glass-melting furnaces in general
 Details by :66.012..., :66.04... etc.
- .2 Tank furnaces for glass melting
- .3 Pot and crucible furnaces for glass melting
- .4 Special glass-melting furnaces (e.g. bushings for glass fibre manufacture)
- .5 Electric glass-melting furnaces
 —621.365
- .7 Ancillary equipment for feeding molten glass to forming machines (e.g. Libbey-Owens suction rotating bowl)
- .8 Ladling and measuring-out of molten glass. Feeders for molten glass. Blow cases
- .032 Glass forming in general. Glass blowing in general. Glass blowing without compressed air in particular. Hot decorative shaping of hollow glass
- .3 Mouthblowing of glass (without compressed air)
- .5 Generalities on moulds for injecting, pressing, casting or blowing glass, with or without use of compressed air or suction. Glass mould technology
- .8 Surface decoration. Sticking. Introduction of bubbles. Sealing
- .82 Surface decoration of glass during forming
- .83 Sticking of glass masses
 —666.1.054
- .84 Intentional introduction of bubbles into glass
 —666.1.059
- 85 Sealing, uniting of materials with glass during forming. Production of millefiore and glass with inclusions
- .033 Glass blowing with compressed air
 —666.17
 666.1.033-2/-8 Characteristics of glass-blowing machinery
 Details from 62-2/-8
- .034 Casting of glass
 —666.164
- .035 Glass forming by injection, pressing, rolling, stamping (processes and plant)
- .1 Injection of glass
- .2 Pressing of glass
 —666.185
- .3 Rolling of glass, in general
 —621.771; 666.162
- .4 Continuous rolling of glass
- .5 Rolling of ornamental, patterned glass
- .7 Casting rollers
- .8 Forming of solid glass objects
- 036 Glass forming by drawing, centrifuging, pulverizing, foaming etc. (processes and plant)
- .2 Glass drawing by centrifugal processes. Drawing by gaseous entrainment
 —666.189.2
- .3 Glass forming by shaking
- .4 Drawing of flat, sheet glass
 —666.1.036.8; 666.15
 666.1.036.4-71 Cooling equipment (from 62-71; cf. 666.1.038)
- .5 Drawing of glass as cylinders, tubes, bars or rods (from the bath or with blowing pipe). Nozzle drawing for production of glass silk. Production of hollow glass fibres
 —666.173; 666.188; 666.189.21
- 666.1.036.6 Glass forming by inflation, foaming (by physical or chemical means)
 —666.189.3
- .7 Float processes for glass forming. Glass forming by flotation, immersion etc.
 —666.163
- .8 Machines and devices for drawing and forming of flat, sheet glass
 —666.1.036.4
- .9 Equipment for forming glass whether or not in contact with a molten material
- .037 Subsequent shaping of glass
- .1 Rod-drawing process for glass fibre production
 —666.189.2
- .2 Transformation of glass fibres to obtain stratified material
- .4 Cracking off. Fusing. Melting off, e.g. of capillary tubes
 —666.1.053.2
- .5 Fusing of glass to metal
 666.1.037.5 ≈ 669
- .6 Fusing of glass to non-metals (e.g. ceramics)
- .7 Mechanical production of glass ampoules, phials etc. Of glass tablet bottles. Of test tubes. Of miniature light bulbs
 —666.176
- .8 Lamp working of glass
 —542.53; 666.174
- .038 Thermal treatment of glass. Annealing of glass. Strengthening by heat treatment or by crystallization. Reheating. Thermal coloration (striking)
 —66.04
- .2 Lehrs. Annealing kilns
- .3 Strengthening of glass articles by rapid cooling. Thermal toughening of glass. Strengthening by controlled crystallization
- .4 Reheating furnaces. Toughening furnaces
- .5 Toughening of glass fibres during drawing
- .6 Thermal coloration of glass. Striking of coloured glass. Development of colour by reheating (e.g. in ruby and yellow glasses by silver staining)
- .8 Devitrification processes
- .039 Strengthening of glass products by modification of the structure or of the composition of the surface layers
 —666.1.053.65; 666.112.8
- 05 **Subsequent working of glass or glass articles. Glass finishing in general**
- .053 Mechanical or hand working of glass
 —621.9
- .2 Cutting off. Separating
 —666.1.037.4
- .3 Glass drilling, planing, turning, milling. Screw cutting of glass
- .4 Embossing and grooving of glass
- .5 Grinding and polishing of glass (in general)
 —621.92; 666.224; 666.285
- .61 Mechanical engraving of glass. Diamond-point engraving, scribing etc.
 —666.281
- .62 Mechanical matt finishing of glass. Sandblasting of glass
 —621.547 and references there; 666.284
- .63 Chemical finishing of glass. Matt etching of glass. Badging of glass by etching
- .65 Modification of chemical structure or composition of the surface layers. Production of anti-reflection coatings (non-glare glass). Improving the surface of glass
 —666.1.039; 666.1.056; 666.266.4
- .8 Fragmentation of glass
- .054 Joining of glasses or glass articles. Cementing. Sticking. Welding. Soldering. Laminating etc.
 —666.1.032.83; 666.1.037.4; 666.155/.157

666.1.055	Coating of articles with glass layers. Spraying with molten glass. Dipping in molten glass. Vittrification of a coating —666.29	666.119.6	Defects in optical glass. Short finish. Slick. Staining
.056	Coating of glass with other substances. Metallizing of glass. Production of protective films on glass —666.1.053.65; 669.228; 686.4; 686.7 666.1.056:546.284-31	.12 .122 .2 .3 .4 .5 .123	Raw materials for glass making and glass working (in general) Raw materials for the introduction of acid glass components Silica-containing raw materials. Quartz. Sand Alumina-containing raw materials. Clay. Feldspar Raw materials containing boron oxides. Borax Raw materials containing phosphorus oxides Raw materials for the introduction of basic glass components Alkali-containing raw materials. Soda. Potash. Others Alkaline-earth-containing raw materials. Natural rocks as raw materials, in general Raw materials containing heavy metals (e.g. lead, zinc) Raw materials containing colouring, decolorizing, opalizing or refining components —666.24
	Coating of glass with silica (silicon dioxide). Siliconizing of glass :669.228 Silvering of glass (in the strict sense)	.2 .3 .4 .124	Batch Batch composition Glass cullet. Glass in blocks. Scrap. Cullet. Broken glass. Glass chips Glass bars. Glass rods. Flashing knobs for casing or fillgree work. Rods and beads for further working —666.188; 666.25; 666.27 Glass sheets and plates in general. Sheet glass. Flat glass in general —666.1.036.4; 686.6; 691.615 Glass in sheets. Sheet glass in general Sheet glass with non-flat surfaces. Bent and convex glasses. Ribbed glass Laminated glass. Safety glass. Bullet-proof laminated glass —666.1.054; 666.166; 666.181; 666.25 Double and multiple glass sheets (with air or other layers). Double glazing. Multiple glazing Multi-layer insulating glasses —666.1.054
.2	Metallizing of glass by chemical precipitation	.157	Rolled flat glass. Plate glass. Ornamental glass. Cast glass. Wired glass —686.6
.3	Electrochemical metallizing of glass	.161	Rough-cast glass
.4	Physicochemical metallizing of glass	.162	Plate glass —666.1.035.3
.6	Metallizing of glass by physical methods	.163	Float glass —666.1.036.7
.8	Powder coating of glass	.164	Ornamental glass (cast fancy glass) Cast glass in general. Pressed and cut glass. Hammered glass. Fluted, ribbed and other patterned glasses —666.1.034; 666.153; 666.264
.058	Staining and painting of glass. Other techniques of applying colour to glass	.166	Armoured glass. Reinforced glass. Wired glass. Fused glass with metallic inlay. Chauvel glass —666.155; 666.266.3
.1	Pigments for glass staining. Glass colours. Black stain —666.24; 667.783; 748	.17	Hollow glass in general (irrespective of production process). Blown hollow glass in particular —666.1.033; 666.185
.4	Transfers on glass. Printing and spraying of glass. Screen-printing of glass (e.g. silk-screen process) —655.3.025; 655.332; 681.625.7	.171	Glass bottles, carboys etc. —621.642.17; 621.798.147; 683.5
.5	Firing on	.9	Parts of glass bottles
.6	Mordant colours and lustres on glass. Yellow staining. Iridizing	.92	Bottle necks —666.285 666.171.92:621.882.082.6
.7	Colouring of glass by filling connecting pores with pigment		Screw-threaded bottle necks (rounded thread)
.8	Glass painting (with conventional colours). Églomisé work (back-painting of glass). Cold painting and lacquering of glass		White or coloured hollow glassware Glass tubes —666.1.036.5; 621.643.2
.059	Other decorative techniques (e.g. introduction of air bubbles into glass) —666.1.032.84		
Principal divisions			
666.11/.28	Kinds of glass. Glass articles. Glassware —642.72		
11	Glass. Glass articles in general		
Special auxiliary subdivisions			
666.11.01	Glass properties. Glass testing —535.34; 620.1		
.016.2	Composition of glasses		
Principal divisions			
666.112	Glasses according to composition		
.2	Alkali-silica glasses. Water-glass —661.683/.684		
.3	Alkali-lime-silica glasses		
.4	Lead glasses —666.21		
.5	Glasses containing iron and alumina		
.6	Barium glasses		
.7	Borosilicate glasses (e.g. Pyrex glass) —666.117.3/.4		
.8	Glasses of almost pure silica Vycor glass —666.1.039; 666.192		
.93	Alkali-free glasses		
.117	Glasses according to technical properties		
1	Glasses with characteristic working properties. Short glasses. Long glasses		
.2	Glasses with particularly high or low melting temperature. Soft glasses		
.3	Glasses with particularly high resistance to thermal shock. Heat-resistant glasses. Oven glass —666.112.7		
.4	Glasses with particularly high chemical durability. Chemical-resistant glasses —666.112.7		
.119	Glass defects —620.19		
.2	Defects in molten glass. Defects of body, of material. Inhomogeneities, colour defects etc.	.172	
.3	Defects in hollow and pressed glass	.173	
.4	Defects in flat glass		

666.174	Apparatus glass for lamp working. Glass apparatus (chemical, physical etc.) and other glass articles produced by lamp working —542.17.2; 542.53; 666.037.8	666.232.8 .233 .24	Silicates. Beryl. Emerald. Topaz. Feldspar etc. Imitation diamonds of glass Transparent coloured glasses. Glasses coloured in the mass (coloured throughout). Stained glass. Glasses with selective absorption. Aventurines —628.955; 666.1.058.1; 666.124; 667.783; 748
.175	Glass envelopes etc. for lighting fittings. Glass globes and lampshades. Glass bulbs, e.g. for incandescent lamps (electric light bulbs). Glass tubes for fluorescent and discharge tubes —621.3.032.7; 628.95	.241 .242	Red glasses. Ruby glasses. Orange glasses Yellow glasses. Blue glasses. Green glasses Aventurines
.176	Glass ampoules, phials etc. Glass tablet bottles. Test tubes —615.014.8; 621.798.147; 666.1.037.7	.245 .246	Violet glasses. Grey glasses. Black glasses Glasses transmitting particular radiations Glasses with variable transmission
.18	Other simple glass products	.6	Glasses not transmitting particular radiations
.181	Toughened glass —666.155	.247	Glass opaque to certain wavelengths —614.893.2; 681.7.066.6; 681.738
.185	Pressed glass. Pressed household glassware. Building, architectural glass. Glass bricks, tiles etc. Glass insulators —666.1.035.2; 666.172; 691.618.5	.248 .249	Glasses transmitting certain radiation in only one direction. One-way glass Special coloured glasses. Glasses with narrow absorption bands (e.g. didymium and neodymium glasses)
.188	Glass bars. Glass rods —666.1.036.5; 666.128	.25	Flash glass. Cased glasses. Glasses coloured on the surface. Frosted, satin-finish, pearl, iridescent glasses. Hollow glass with interlayer, e.g. of plastics. Hollow laminated glass —628.955; 666.128; 666.155
.189.1	Glass artificial eyes. Christmas-tree decorations. Glass figurines etc. —666.27	.26	Opal glass. Light-scattering glasses in general. Various other glasses —666.284; 666.291
.2	Glass drawn into fibres and articles made from them —666.1.036.2; 666.1.037.1; 677.52	.263	Opaque glasses. Opal glass. Opaline. Opalescent glass. Translucent glass. Milk glass. Marble glass —628.955; 666.291.7 666.263; 666.25 Flash glass Coloured opal glass
.21	Glass fibres and their products. Textile glass —666.1.036.5 666.189.21:666.192 Quartz fibres 666.22 Optical fibres —681.7.068	.26 .263 .4 .264	Ornamented glass (reworked glass). Glasses decorated by fusing on of different kinds of glass —666.164; 748
.211	Discontinuous glass fibres. Spun yarn. Glass wool	.265	Luminescent glass. Fluorescent glass
.212	Continuous glass fibres. Textile glass. Fibre glass yarns and woven fabrics	.266	Various glasses with particular characteristics
.213	Hollow glass fibres	.1	Antique glass
.24	Porous glass with interconnected pores	.3	Electrically conductive glass (with conductive ingredient or with inlays). Glass that can be electrically heated —666.166
.3	Porous glass with separated pores. Foam glass. Inflated glass —666.1.036.6	.4	Glass with metallic coating for other purposes (e.g. for reflectance, for non-reflectance) —666.1.053.65; 686.7
.4	Powdered, pulverous glass. Glass dust. Glass granules. Spangle glass —621.921; 676.265	5	Photosensitive and photoplastic glass. Glass with internal images formed by radiation and/or chemical or physical treatment
.19	Vitreous silica (fused silica). Fused basalt. Rock crystal. Slags etc.	268	Pieces of glass joined by lead or other suitable material. Glass mosaics. Glasses for mosaic production —693.74; 72.04; 738 5; 748
.192	Vitreous silica (fused silica). Silica glass. Quartz. Rock crystal —666.112.8; 666.189.21	.27	Glass beads. Small glass articles. Glass ornaments —666.128; 666.189.1
.193	Fused basalt. Basalt wool	.28	Engraved glasses. Cut glasses. Matt glasses. Decoratively finished glasses in general
.195	Fused zirconia	.281	Engraved glasses —666.1.053.61
.198	Mineral fibres. Mineral wool <i>The .0 special auxiliaries listed under 666.1 are also applicable here</i>	.284	Matt glasses —666.1.053.62; 666.26
.21	Lead glass (lead crystal). Crystal glass. Light crystal. Heavy crystal —666.112.4	.285	Ground or cut hollow glassware —666.1.053.5
.22	Optical glasses —535.399; 681.7.02/.03	29	Enamels. Glazes. Silicate colours. Engobes —666.1.055; 669...693
221.3	Optical crown glass	Special auxiliary subdivisions	
.4	Optical flint glass	<i>The .02 special auxiliaries listed under 66 are not applicable here</i>	
.6	Special glasses	Preparation of raw materials for enamels etc.	
.223	Optical glass blanks. Pressed lenses etc.	Pretreatment. Weighing	
.224	Ground optical glasses —666.1.053.5	Comminution of raw materials —621.926	
.227.3	Spectacle glasses	Mixing of raw materials	
.5	Contact lenses		
.23	Strass (paste). Paste stones. Imitation gems of glass —671.16; 679.88		
.231	Strass (paste). Imitation gems. Simulated precious stones		
.232	Artificial stones made by chemical synthesis. Synthetic gems		
.2	Corundums (crystallized alumina) Coloured corundums. Synthetic ruby, sapphire etc.	666.29.022 .1 .2 .4	
.5	Oxides other than alumina. Quartz. Chalcedony. Opal. Amethyst. Zircon		
.6	Spinel		

666.29.022.5	Separating, screening, sieving of raw materials	666.3-128	Dense ceramic materials. Ceramics of compact, close-grained structure
	—621.928	-131.9	Impervious ceramics
.7	Production and ageing of slips	-134.1	Acid-resistant ceramics
.71	Fineness of grinding. Regulation of slips	.2	Alkali-resistant ceramics
.73	Ageing of slips	-135	Heat-resistant ceramics. Ceramics resistant to high temperatures
.031	Melting of enamels etc. Cooling the melts		High-strength ceramics
.041	Melting furnaces for enamels, glazes etc. 666.29.041 ≈ 66.041	-16	According to method of production and treatment
.042	Ancillary equipment for melting furnaces 666.29.042 ≈ 66.042	-18	Hand-moulded ceramics
.047	Drying. Drying ovens 666.29.047 ≈ 66.047	-182	Cast ceramics
.05	Processes and equipment for application of enamels, glazes etc.	-183	Slip-cast ceramics
.051	Processes and equipment for wet application. Dipping, pouring on, brushing, spraying of enamels etc. Edge-lining of pottery	.2	Fusion-formed ceramics
.052	Processes and equipment for application by powdering. Sifting	.4	Pressed, moulded ceramics
.053	Processes and equipment for stoving and cooling —666.29.041/.042	-184	Extruded ceramics
.054	Cleaning off of enamelled or glazed ware	.2	Compression-moulded ceramics
.056	Decoration of enamelled or glazed ware. Painting, metallizing, gilding, printing of glazed ware etc.	.4	Dried, unfired ceramics
		-186	Fired, sintered ceramics
		-187	Glazed ceramics
		-188	State, condition, form of ceramic materials and objects
		-4	666.3-4 ≈ 62-4
Principal divisions		666.3.015	Reactions. Behaviour of ceramic materials during working and treatment (e.g. shrinkage)
666.291	Enamel fluxes. Glazing fluxes. Colouring agents. Opacifiers	.016	Composition of ceramic mixes, batches, glaze
.1	Raw materials 666.291.1 ≈ 666.12	.017	Technical properties of ceramics (physical and mechanical properties) and their testing
.3	Enamel colours. Colouring agents, stains —667.622	.019	Material defects in ceramics 666.3.019 ≈ 620.19
.5	Ceramic colours	.022	Preparation of raw materials. Production of paste for ceramics
.7	Opacifiers and their action —666.263	.1	Pretreatment of raw materials
.9	Special glazing fluxes. Cold glazes	.2	Comminution of raw materials. Pulverizing elements —621.926
.293	Enamelling of metals (especially ferrous metals)	4	Preparation of the clay
.2	Effect of shape or form on enamelling	.5	Separating, screening, sieving of raw materials —621.928
.3	Cleaning of metal surfaces (sheet metal and castings)	.6	Preparation and treatment of the paste and slip
.35	Chemical pickling	.032	Shaping of ceramics
.52	Enamels for sheet steel	.2	Shaping by hand. Hand-moulding
.521	Ground-coat enamels	.4	Slip-casting
.522	Cover-coat enamels	.5	Fusion-forming
.53	Enamels for cast iron 666.293.53 ≈ 666.293.52	.6	Pressing, moulding. Extrusion
.55	Matt enamels. Granite enamels. Other kinds of enamel	.8	Compression-moulding
57	Methods of preventing the enamelling of certain parts of the metal	.04	Ramming
295	Ceramic glazes		Heat-treatment operations. Thermal processes As 66.04, e.g.
297	Engobes —666.3.052	.052	.042 Ancillary equipment for kilns
666 3/ 7	CERAMICS	.053	.046.4 Firing of ceramics
	<i>The -1 special auxiliaries listed under 666 3, -2/-8 listed under 62, and -9 listed under 66, are applicable throughout 666 3/ 7. The .0 special auxiliaries listed under 66 are also applicable, with the modifications given under 666 3</i>	.056	.047 Drying of ceramics. Drying kilns —666.297
3	Ceramics in general. Ceramic raw materials		Coating, engobing
	666.3 002 3 Ceramic raw materials in general —Table I(i); for specific raw materials — 662.32/.36	.058	Glazing of ceramics
	.002.64 Ceramic products in general —Table I(i); for specific products — 666.5/.7	666.32/.36	Decoration of ceramics. Painting, underglaze. On-glaze decoration etc. —686 4
Special auxiliary subdivisions		Principal divisions	Printing, lithography on ceramics
666.3-1	Ceramic materials and objects according to various characteristics	666.32/.36	Ceramic raw materials
-121	Very fine-grained ceramic materials	.32	Clays for ceramics. China clay (kaolin). Plastic clays, bentonite etc. Argillaceous earths. Marls. Fuller's earth
-122	Fine-grained ceramic materials	.36	Non-plastic raw materials. Fluxes. Accessory materials. Chamotte, grog (crushed pottery, firebrick etc.) Silica. Fluxing agents, limestone, feldspar etc. —666.647
-123	Coarse-grained ceramic materials	.5	Porcelain. China (ceramic ware with partly vitrified body, translucent in thin layers, white or almost white after firing) —642.72; 645.5; 738
-127	Porous ceramic materials		

666.5 (cont'd)	666.5(510) Chinese porcelain. China ware in the strict sense —Table I(e) <i>The special auxiliaries listed under 666.3 are also applicable here</i>	666.762.4	Refractories of chromic oxide. Chromite refractories
.51	Hard porcelain. Hard porcelain ware for household, hotel use etc.	.5	Refractories of zirconium dioxide. Zircon refractories
.52	Soft-paste porcelains. Soft porcelain. Bone china etc.	.6	Refractories of oxides of alkaline-earth metals. Refractories of magnesium, beryllium, thorium etc.
.59	Technical porcelains	.765	Refractories of carbon, graphite, carbides
.591	Laboratory porcelain	.767	Natural refractory building materials in general (e.g. quartzite, sandstone)
.592	Refractory porcelain	.77	Refractory mortars in general
.593	Electrical porcelain. Porcelain for insulators —621.315.612	.772	Chemically resistant heavy clay bodies and products. Corrosion-resistant clayware
.596	Porcelain for sanitary ware. Sanitary porcelain —666.645	.774	Alkali-resistant clayware
.597	Porcelain for dental use. Dental porcelain	.792	Acid-resistant clayware
.6	Stoneware. Earthenware (porous ceramic ware) <i>The special auxiliaries listed under 666.3 are also applicable here</i>	.79	Abrasives. Ceramic fuels. Mixtures of ceramics and other materials
.61	Stoneware	.794	Abrasives. Abrasive oxides, e.g. corundum.
.63	Technical stoneware	.798	Abrasive carbides, e.g. silicon carbide (carborundum). Abrasive borides, nitrides —621.921; 676.265
.631	Laboratory stoneware. Stoneware for chemical use		Ceramic fuels —621.039.54
.632	Stoneware for sanitary use. Sanitary stoneware —666.645	666.9	Mixtures of ceramics and other materials. Cermets etc. —669.018.9
.635	Stoneware floor tiles		GYPSUM, LIME AND CEMENT INDUSTRIES. HARD-SETTING MATERIALS. PLASTERS AND COMPOSITIONS. MORTAR AND CONCRETE
.638	Stoneware for electrical use —621.315.612		—691.3; 691.5; 693
.64	Earthenware (porous ceramic ware). Pottery. Clayware	Special auxiliary subdivisions	
.641	Unglazed porous ware. Pottery. Clayware. Terracotta (unglazed)	666.9-1	Materials according to nature, state, properties. Bulk material (as distinct from shaped products) —62-405.6 <i>Denote shaped products by 666.9-4 (from 62-4), especially -41/-47</i>
.642	Products with coloured body and opaque glaze (delftware, glazed terracotta etc.)	-12	Materials according to structural characteristics, texture etc.
.1	Faience	-121	Fine texture. Superfine. Smooth
.3	Majolica	-122	Medium texture. Sandy. Gritty
.643	Products with white or cream body and translucent glaze. Fine, white earthenware. Semiporcelain	-123	Coarse texture. Rough
.645	Sanitary earthenware —666.596; 666.632	-13	Impervious materials. Resistant to physical, chemical or other influences 666.9-13 = 620.193
.646	Earthen wall tiles	-16	High-strength materials
.647	Fireclay ware. Chamotte ware —666.36	666.9.01	Chemical engineering principles and practice. Plant and services in cement industry etc. Properties, defects and testing of materials in cement industry etc. 666.9.01 = 66.01 with some additions
.65	Special ceramic bodies for electrical use	.014	Chemical composition, properties, analysis <i>Details by :54...</i>
.651	Insulators. Dielectrics —621.315.612	.015	Reactions. Behaviour of materials undergoing change —541.12; 666.9.03/.05
.652	Semiconducting ceramic bodies	.2	Heating, burning, calcination reactions
.653	Ferromagnetic ceramic bodies	.3	Behaviour of materials in application, working (laying, floating, rendering). Workability. Floatability etc.
.654	Thermoelectric ceramic bodies	.4	Setting reactions and changes generally
.655	Piezoelectric ceramic bodies	.42	Reactions in mortar. Hydration. Hydrated compounds
.658	Synthetic micas and micaceous minerals	.43	Reciprocal effects between reactions and setting process
.7	Coarse ceramics. Heavy clayware. Refractories. Hard ceramic materials. Mixtures of ceramics and other materials —691.4 <i>The special auxiliaries listed under 666.3 are also applicable here</i>	.5	Setting time. Setting rate. Setting medium. Defective setting
.71	Solid bricks and blocks	.6	Factors influencing setting
.712	Building bricks	.64	Effects of chemical composition
.714	Facing bricks	.66	Effects of additions, admixtures
.715	Facing tiles	.67	Effects of temperature. Effects of heat, cold, frost
.72	Hollow bricks and blocks	.7	Behaviour of materials during hardening
.73	Drainage and sewer pipes	.8	Behaviour of materials after setting and hardening
.74	Roofing tiles	.82	Volume stability after hardening. Cracking etc. Swelling, expansion
.75	Quarry tiles. Flooring and paving tiles	.83	Incompatibility of materials
.76	Refractory bodies and products —66.042.21; 66.043.1; 666.946.6		
.762	Refractory bodies and products according to composition		
.1	Refractories of alumina, aluminium silicate.		
.2	Fireclay refractories		
.2	Refractories of silica, quartzite, quartzite-and-clay		
.3	Refractories of magnesite, forsterite, spinel, dolomite. Chrome-magnesite refractories		

666.9.017	Technical properties of cements etc. (physical and mechanical properties) and their testing. Strength etc. 666.9.017:531.754 Determination of relative density (specific gravity) of cements etc. :620.173 Testing of compressive strength of cements etc.	666.924	Lime products (forms for building or other use). Caustic lime. Quicklime. Air-slaked lime. Hydrated lime. Slaked lime. Lime putty. Limewash (whitewash) Hydraulic lime Cement industry —666.97; 691.32; 691.54
.019	Material defects. Resistance to attack 666.9.019 ≈ 620.19	.925 .94	Special auxiliary subdivision 666.94.052 Clinker, its crushing and grinding <i>Details by :621.926 etc.</i> —666.9.022.3
.02	Processing in general. Raw materials and their preparation. Apparatus and equipment <i>The subdivisions of .02 are similar to those of 66.02, but have been further developed here</i>	Principal divisions 666.941	Weakly calcined cement (without sintering in kiln). Natural Roman cement (Parker's cement). Magnesia cement (Sorel cement). Dolomite cement. Gypsum cement Portland cement Ordinary Portland cement (natural) Portland cements with special properties (artificial). Rapid-hardening, high-early-strength, low-heat, air-entraining and sulphate-resisting Portland cements Iron-oxide-rich Portland cements. Manganese-oxide-rich Portland cements Clay-rich, alumina-rich Portland cement —666.948
.022	Raw materials. Pretreatment, handling and preparation generally. Crushing and grinding. Compounding and mixing. Grading, cleaning etc.	.942 .2 .3	Silica-rich Portland cement Chalk-rich Portland cement. Other limestone-rich Portland cements. Magnesia-rich Portland cement White and coloured Portland cements Slag-containing cements. Blast-furnace and sulphated cements Portland blast-furnace cement (up to 20% blast-furnace slag) Blast-furnace cement (20-80% blast-furnace slag) Clinker slag cement (over 85% blast-furnace slag) Sulphated cement. Supersulphated cement Pozzolan cements. Trass cements —691.54
.1	Natural raw materials <i>Details by :553.51.6 etc.</i>	.4	Artificial pozzolan cements Cements manufactured simultaneously with other materials. Bassett cement. Anhydrite-based cement Cements with special properties Rapid-hardening cements. Quick-setting cements Expanding cements. Non-shrinking cements Cements resistant to various influences Sand cement. Other lean cements Masonry cement Refractory cement —666.76; 666.948.4
.2	Artificial raw materials: slags etc.	.5	Injection cement. Grouting cement —666.97.033.12/.14
.3	Preparation, crushing and grinding <i>Details by :621.926 etc.</i> —666.94.052	.6	Fused cements —666.948.3
.4	Mixing and blending raw materials for burning in kilns <i>Details by :621.929</i>	.7	High-alumina cements Sintered high-alumina cement Fused high-alumina cement Refractory high-alumina cement Sulphoaluminous cement Pozzolanas. Substances with similar effect —691.54
.41	Dry processes	.8	Natural pozzolanas. Trass. Diatomaceous earths (Diatomite. Kieselguhr) —553.53
.42	Wet processes	.943	Artificial substances. Artificial pozzolanas. Blast-furnace slag. Furnace ash. Fly ash. Converted gaize. Brick dust Limed pozzolanas Hard-setting cement compositions, agglomerates and imitation stone products (for rendering, facing, bedding, filling, bonding etc.) —666.914.5; 69.025.3; 691.3/.5; 693.7
.5	Grading, sizing and cleaning of aggregates, fillers etc. Sieves, separators etc. <i>Details by :621.928</i>	.1	Special auxiliary subdivisions 666.96...1 Aggregates. Fillers. Admixtures
.6	Admixtures, additives for aggregates etc. Pigments, special cements etc.	.2	
.7	Water as raw material for preparation of mixes —666.972.17	.3	
.023/.028	Apparatus and equipment generally. Reaction vessels, piping etc. 666.9.023/.028 ≈ 66.023/.028	.4	
.03	Compounding of prepared raw materials. Processing and special treatment <i>For subdivisions — 666.97.031/.033</i>	.944	
.04	Heat treatment. Burning, calcination etc. 666.9.04 ≈ 66.04	.2	
.05	Handling and treatment of processed material. Cooling, slaking etc. Fabrication, machining, finishing. Storage, handling and transport	.945	
053	Colouring of bulk material <i>For colouring of formed products — 666.9.058</i>	.946	
056	Machining. Cutting. Tooling. Bush-hammering etc. <i>Details by :621.9</i>	.1	
058	Coating, dyeing, impregnating etc. Painting and other surface finishing	.2	
059	Storage, handling and transport of finished products —621.86/.87; 658.78	.3	
Principal divisions		.4	
666.91	Gypsum and anhydrite industry. Gypsum plasters and plaster products —666.941; 691.31; 691.55; 693.6	.5	
913	Gypsum and anhydrite plasters (chemical type)	.95	
914	Plaster products for building	.951	
4	Constructional plaster products. Plasterboard, plaster blocks etc.	.952	
5	Compositions for renderings and facings (e.g. stucco materials) —666.96	.953	
.92	Lime industry. Lime and lime products —631.821; 691.51; 693.6	.96	

666.96...1 (cont'd)	<i>These final digits may be added to 666.961/.966 (not .968)</i>
...12	Mineral aggregates or fillers
...13	Asphaltic and other bituminous aggregates or fillers
...14	Sawdust and other wood or cork aggregates or fillers
...15	Other aggregates or fillers of vegetable or animal origin

Principal divisions

666.961	Asbestos cement. Similar fibrous or felted cement compositions and products
.962	Magnesium-based and similar compositions (for jointless floorings, etc.)
.963	Terrazzo. Similar agglomerates with inorganic cement base (for floorings etc.)
.964	Mastics. Agglomerates containing coarse or fine aggregates with bituminous binders
.965	Sand-lime products (calcium silicate products). Imitation sandstone. Other imitation stone products. Lightweight lime concrete. Imitation stones of slag, clinker etc.
.966	Graphite-based compositions and pastes. Plumbago compositions
.968	Bedding, bonding and jointing compounds or cements (for specific materials)
97	Mortar and concrete industry. Concrete elements. Factory production of concrete —624.012.3/.4; 666.94; 691.3; 693.5

Special auxiliary subdivisions

666.97.03	Preparation of mix. Processing and treatment in works or factory
.031	Preparation of mix (cement, mortar, concrete mix). Batching and mixing in factory or central plant
.2	Manual, hand mixing. Hand mixing equipment
.3	Machine mixing. Cement and concrete mixers (for batch mixing). Batch mixers
.4	Continuous mixing. Continuous cement and concrete mixers
.5	Colloidal mixing. Colloidal mixers. Other grout mixers
.6	Retempering, remixing after start of hardening
.9	Consistency, stiffness of concrete etc.
.033	Processing of mix. Compaction, moulding etc.
.1	Compaction of concrete mix
.11	Ramming, tamping, rodding. Rammers. Tampers. Punners. Rammed concrete
.12	Pouring. Floating. Poured, floated concrete
.13	Pumping. Pumped concrete
.14	Injection. Spraying. Grouting. Injected, sprayed or grouted concrete —666.946.7
.16	Vibration. Vibrators. Vibrated concrete
.17	Centrifuging, spinning. Spun concrete
.3	Special processing, compaction etc. for underwater use, hydraulic works. Underwater concrete
.4	Placing and supporting the reinforcement for concrete <i>For use with 666.98</i>
.035	Measures during setting and hardening of concrete etc. Curing, artificial hardening etc.
.4	Vacuum treatment for water extraction. Vacuum concrete
.5	Curing of concrete. Artificial hardening of concrete
.037	Striking of formwork. Removal of concrete objects from moulds. Time of removal
.038	Protective treatment of concrete after hardening
.052	Batch handling. Delivery of ready-mixed concrete (at the site)
.2	Plant-mixed concrete. Delivery in special containers or trucks without mixers
.3	Truck-mixed concrete. Mixing in transit. Truck mixers

666.97.053	Continuous delivery of ready-mixed concrete (at the site). Delivery of concrete through pipelines, by pump, with compressed air. Pneumatic concrete placers
.055	Fabrication, bonding etc. of concrete
.056	Machining. Cutting. Tooling. Bush-hammering etc.
.058	Coating, dyeing, impregnating etc. Painting and other surface finishing of concrete

Principal divisions

666.971	Mortars. Lime mortar. Cement mortar
.3	Lime mortar (non-hydraulic mortar)
.4	Cement mortar (hydraulic mortar)
.972	Concrete. Cement concrete
.1	Concrete according to aggregate and admixture composition
.11	Aggregate/cement ratio. Lean and fat concrete
.112	Lean concrete (high aggregate, low cement)
.114	Fat concrete (low aggregate, high cement)
.12	Aggregates for concrete. Form (size, shape), weight etc.
.16	Concrete admixtures. Various agents. Waterproofing agents (water-repellents) Surface-hardeners. Frost-protection agents. Air-entraining agents. Others
.17	Mixing water for concrete. Water/cement ratio —666.9.022.7
.2	No-slump concrete (moist-earth consistency)
.3	Low-slump concrete (plastic consistency)
.4	High-slump (pourable, fluid consistency)
.5	Water-resistant concrete. Weather-resistant concrete. Wear-resistant concrete (e.g. concrete for paving)
.973	Lightweight concrete. Concrete with low unit weight
.2	Lightweight concrete with special mineral and/or non-mineral aggregate (e.g. sawdust concrete, cork concrete). Nailable concrete. Breeze concrete
.3	Lightweight concrete with only coarse aggregate. No-fines concrete
.4	Concrete with single-size, gap-graded lightweight aggregate
.6	Aerated, airblown concrete Cellular concrete
.974	Insulating concrete
.2	Special concretes
.4	Refractory concrete. Fire-resistant concrete
.6	Coloured concrete
.98	Concretes containing special cements (e.g. concrete containing high-alumina cement)
.981	Reinforced cement and concrete.
.982	Prestressed concrete .033.4 listed under 666.97 is also applicable here
.2	Reinforced cement products
.3	Reinforced concrete (including prestressed concrete products, beams etc.) —624.012.45/.46; 691.328; 693.55/.56
.4	Reinforced concrete. Ferroconcrete
.7	Pretensioned prestressed concrete
	Prestressed concrete
	Wood concrete. Bamboo concrete. Others

COLOUR INDUSTRIES (DYES, INKS, PAINTS ETC.)

—535.6; 547.97; 621.795.3; 676.024.72; 676.026.72; 677.027; 678.029.8

Special auxiliary subdivisions

667-12	Colours. Colour tones
667-12	≈ 535-2, e.g.
667-121	Red colour group (from 535-21)

Principal divisions

667.2	DYESTUFFS INDUSTRY. MANUFACTURE AND USE OF DYESTUFFS —677.016.42; 677.027.4; 677.047.4
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667.21	Auxiliary materials. Mordants. Developing agents etc.	667.5	PRINTING INKS (BLACK OR COLOURED). LITHOGRAPHIC INKS. CHALKS. WRITING AND DRAWING PENCILS. COLOURED CRAYONS
.214	Mordants		
.215	Developing agents		
.216	Brightening agents		
.217	Fixing agents		
.22	Pretreatment of material to be dyed		
.24	Dyeing processes		
.26	Inorganic dyestuffs	.03	Properties and testing of printing inks. Drying. Fastness to light. Penetration. Alkali resistance. Water resistance. Viscosity
.27	Natural organic dyestuffs		Colouring matter. Dyes, pigments. Binders. Additives
.271	Dyestuffs of animal origin —547.975; 638.3	.032	Colouring matter. Dyes, pigments for printing inks. Coloured printing inks according to pigment
.272/.276	Dyestuffs of plant origin. Vegetable dyestuffs —633.86	.033	Binding agents for printing inks. Printing inks according to binders and vehicles
.272	Dyestuffs from whole plants (e.g. litmus)		Additives for printing inks
.274	Dyestuffs from bark or roots (e.g. madder, turmeric)	.034	Moistening and washing agents for graphic use
.275	Dyestuffs from leaves, flowers, fruit (e.g. indigo, woad)		
.276	Dyestuffs from twigs (e.g. gambier or catechu)		
.28	Synthetic organic dyestuffs. Aniline dyes		
.281	Azo, azoxy and hydrazo dyestuffs	.521	Printing inks (black or coloured) —655.3
.1	Monoazo dyestuffs	.1	Black printing inks
.2	Diazo dyestuffs		Ordinary black printing inks. Carbon black (lampblack) —661.666.4
.5	Polyazo dyestuffs	.2	Fine black printing inks
.6	Polyazo dyestuffs from diazotized amines by auto-coupling (e.g. Bismarck brown, chrysoid dyestuffs)	.3	Printing inks for rotary presses
.8	Hydrazo dyestuffs	.4	Carbon inks
.282	Anthracene and anthraquinone dyestuffs	.522	Coloured printing inks
.1	Simple anthracene dyestuffs	.523	Aniline printing inks
.4	Anthracene dyestuffs with carbocyclic ring systems	.524	Planographic printing inks. Lithographic inks. Offset printing inks —667.55
.5	Anthracene dyestuffs with condensed heterocyclic ring systems	.525	Intaglio printing inks. Inks for etching, engraving, gravure
.7	Anthracene sulphur-containing dyestuffs	.526	Printing inks for other purposes. Special printing inks. Stencil inks. Screen printing inks. Textile printing inks. Security printing inks (for printing of share certificates etc.)
.283	Acridines. Diarylmethane dyestuffs. Triarylmethane dyestuffs. Phthaleins. Pyronines. Hydroxyketone dyestuffs		Luminescent printing inks —628.9.03; 677.027.5; 667.047.5
.1	Acridine dyestuffs		Varnishes and lacquers for printed matter
.3	Auramines. Diarylmethane dyestuffs	.528	Inks for ink pads. Stamping inks (e.g. for rubber-stamping). Duplicating inks (e.g. hectographic inks). Ribbon inks (e.g. pigments for typewriter ribbons)
.4	Triarylmethane dyestuffs	.53	Lithographic inks —667.524
.6	Hydroxyketone dyestuffs		Pencils. Crayons —686.863.3; 75.023
.7	Phthaleins		Pencils. Lead pencils (graphite pencils)
.8	Pyronines. Xanthenes		Ink pencils. Aniline-dye chalks and pencils
.284	Azines. Oxazines. Thiazines. Indulines. Indophenols. Indamines	.55	Coloured pencils. Crayons
.6	Indophenols	.56	
.285	Sulphur-containing dyestuffs —667.282.7	.562	
.286	Vat dyestuffs. Indigo and indigoid dyestuffs	.564	
.287	Quinoline, cyanine, phthalocyanine, nitro and nitroso dyestuffs	.565	
.4	Quinoline dyestuffs. Cyanines		
.6	Nitro and nitroso dyestuffs		
.289	Other synthetic organic dyestuffs Details by :547...	667.6	COATINGS AND COATING TECHNIQUES. PAINTS. VARNISHES. LACQUERS
667.4	WRITING INKS —003.57		<i>Subdivisions of 667.6 may be combined using the apostrophe (Table II) to replace the digits 667.6 in the second and subsequent elements in the compound; the elements are cited in descending numeric order, e.g.</i>
.41	Ordinary writing inks		667.629.6'215.3 Anti-skinning agents for stand oil
.42	Black copying inks		from 667.629.6 and 667.621.53
.43	Copying inks. Aniline inks		667.661.23'443'332.4 Spray guns for spray application of oil paints
.44	Coloured inks		from 667.661.23, 667.644.3 and 667.633.24
.45	Permanent inks (indelible inks)		
.46	Sympathetic inks (invisible inks)		
.42	Black copying inks		
.43	Copying inks. Aniline inks		
.44	Coloured inks		
.45	Permanent inks (indelible inks)		
.46	Sympathetic inks (invisible inks)	.61	General matters. Properties. Tests. Defects
.47	Metallic inks. Gold ink. Silver ink	.612	Properties and testing of coating materials before or during application
.488	Inks for ball-point pens		Particle size in coatings. Coarseness of grain —539.215
.49	Other kinds of ink. Powdered inks. Ink tablets	.2	Behaviour of coating materials in storage. Separating and sedimentation. Thickening. Gelation. Redispersibility (response to agitation)
		.3	

667.612.6	Behaviour of coating materials during application. Film-forming properties. Workability, brushability, spreadability etc. Leafing	667.629	Auxiliaries, additives to coatings —667.621.7
.8	Behaviour of coating materials while drying. Drying time	.2	Solvents. Thinners. Diluents —66.061; 66.063.93
.613	Properties and testing of coatings after application and drying. Properties of applied coatings (including primers, undercoats) 667.613:535.685 Water resistance of coatings	.3	Driers. Siccatives —66.047.8
.2	Weathering of coatings. Behaviour under various weathering conditions —535.686 667.613.2:620.199 Accelerated, artificial weathering of coatings. Short-term testing of coatings	.38	Drying retarders
.613.3	Behaviour of coatings towards liquids 667.613.3:547.294 Behaviour towards butyric acids	.4	Stabilizers (e.g. agents to prevent settling) —66.022.37; 66.063.67
.4	Behaviour of coatings towards gases and vapours 667.613.4:546.171.1 Behaviour towards ammonia	.5	Emulsifiers. Wetting agents —66.022.34; 66.063.5; 66.063.61; 661.185
.5	Biological properties of coatings (and their investigation) 667.613.5:620.193.8 Behaviour towards biological action. Resistance to biological attack	.6	Anti-skinning agents
.7	Defects in coatings	.8	Agents affecting surface finish. Agents producing special surface effects, textures
.62	Constituents of coatings	.82	Agents for special gloss effects (high gloss, satin finish etc.)
.621	Vehicles and binders. Binders as coatings, without pigment	.83	Agents for producing uneven, irregular surfaces (wrinkled, frosted effect etc.)
.2	Aqueous, water-based binders	.84	Agents for producing broken, cracked surfaces (crazed effect, craquelure etc.)
.22	Inorganic aqueous binders (e.g. lime, water-glass)	.88	Agents for reducing chalking
.26	Organic aqueous binders (e.g. protein, albumin; carbohydrates; gums)	.9	Other auxiliary substances. Flow improvers. Poisonous, toxic agents (bactericides, fungicides etc.). Others —667.637.4
.4	Fatty oils and waxes as binders	.63	Coatings. Production and use
.42	Animal and vegetable oils as binders. Special products from oils	.632	Manufacture of coatings. Processes and plant Details by :021.09 from 66, e.g. 667.632.022 Preparation of raw materials for coatings
.44	Waxes as binders		:621.926 Comminution and comminuting plant
.5	Fatty oils with modified composition, as binders. Boiled oils. Oxidized oils. Lightly sulphurized oils. Factice		.046 Thermal treatment. Heating, boiling. Varnish cooking
.53	Polymerized oils. Stand oil	.633	Coatings according to composition 667.633-12 Coatings according to colour —667-12
.6	Macromolecular binders. Natural and synthetic resins as binders	.2	Coatings according to kind of binder 667.633.2 ≈ 667.621, e.g. 667.633.22 Water-based coatings. Water paints, whitewashes etc. (from 667.621.2)
.7	Other essential constituents of the binder system. Plasticizers —66.063.72; 667.629	.4	.24 Oil-based and wax-based coatings. Oil paints etc. (from 667.621.4)
.622	Colorants, pigments, dyes in coatings —66.022.33; 666.291.3	.41	.26 Resin-based coatings Lacquers. Varnishes etc (from 667.621.6)
.1	Inorganic pigments in coatings (except metals)		Coatings according to colorant, pigment, dye
.11	Mineral pigments Details by :661.8..., e.g. 667.622:661.847.9 Pigments of zinc compounds (e.g. zinc white) :661.852 Pigments of lead compounds (e.g. red lead, minium) :661.872.9 Pigments of iron compounds (e.g. iron oxides)	.42	Coatings with inorganic pigments (except metals) Details by :661.8...
.2	Metallic pigments 667.622.2 ≈ 669, e.g. 667.622.235 Copper alloys as pigments (from 669.35)	.6	Coatings with metallic pigments (e.g. bronze paints) 667.633.42 ≈ 669
.3	Organic pigments		Coatings according to auxiliaries, additives 667.633.6 ≈ 667.629, e.g. 667.633.62 According to solvents, thinners, diluents (from 667.629.2)
.31	Natural organic pigments	.634	Coatings according to method of application
.32	Synthetic organic pigments	.2	Coatings for brushing. Brushing paints and varnishes
.33	Dyes for lake formation	.3	Coatings for spraying. Spray paints and varnishes
.4	Dyes soluble in the binder 667.622.4 ≈ 667.622.3	.4	Coatings for dip-coating. Dipping paints and varnishes
.5	Fillers. Extenders. Dyestuff bases	.5	Coatings for dabbing, stippling etc. Stippling paints
		.6	Coatings for roller application. Roller paints and varnishes
		.7	Coatings for spatula application. Filler, glazing putty, sanding surfacer
		.8	Coatings for application by tumbling
		.635	Coatings according to method of drying
		.3	Coatings for drying at normal temperature. Quick-drying (rapid-drying) coatings
		.5	Coatings for drying at elevated temperature
		.636	Coatings according to substrate (material to be painted)

667.636.2	Coatings for inorganic materials (e.g. metals, other minerals) —669...69	667.649.2	Application of foil (leaf). Application of transfers (decalcomania) —669.058 and references there; 669.216; 676.263.4
.4	Coatings for organic material (e.g. wood, other fibrous materials)	.4	Decorative, ornamental painting. Production of surface patterns, designs (e.g. stencilling, rolling-on) —744.34
.8	Coatings for covering existing coatings	.6	Lettering in paint. Signwriting. Sign-painting —744.9
.637	Coatings according to properties and use. Coatings for special purposes 667.637:621.565 Coatings for refrigerating plant	.653	The finished coat. Coating layer Finished coats according to binder 667.653.2 ≈ 667.621, e.g. 667.653.24 Finished oil-based coat (from 667.621.4)
.2	Coatings resistant to particular influences. Protective coatings	.2	Finished coats according to colorant, pigment, dye 667.653.4 ≈ 667.622, e.g. 667.653.423.5 Finished coats with copper alloys as pigments (from 667.622.235, which in turn derives from 669.35)
.22	Coatings resistant to mechanical influences (e.g. wear-resistant coatings)	.4	Individual coats, layers 667.658 ≈ 667.638 667.658.4 Undercoats. Intermediate layers
.23	Coatings resistant to other physical and chemical influences	.661	Tools, equipment for coating operations Equipment for preparation and storage of coating materials
.232	Coatings resistant to heat and cold	.1	Grinding, milling devices. Paint mills. Mixing devices for paints etc.
.233	Coatings resistant to water, moisture	.13	Containers for coating materials. Paint and varnish containers etc. 667.661.17:621.642.17 Bottles for coating materials
.234	Coatings resistant to smoke, flue gases	.17	Equipment for applying the coating (paint brushes, sprays etc.) —687.978; 75.022 667.661.2 ≈ 667.634, e.g. 667.661.23 Spray guns. Paint sprays (from 667.634.3)
.236	Coatings resistant to substances with dissolving and/or swelling action (resistant to hydrocarbons, alcohols, oils etc.)	.2	Devices for producing special surface effects, textures 667.661.3 ≈ 667.629.8, e.g. 667.661.34 Devices for producing crazed effects, craquelure etc. (from 667.629.84)
.237	Coatings resistant to acids or alkalis	.4	Equipment for producing patterns, designs, lettering (e.g. stencils, rollers) —667.649.4/.6
.25	Coatings resistant to atmospheric influences	.5	Equipment for application of foil (leaf) and transfers (decalcomania) —669.058 and references there; 669.216; 676.263.4
.27	Coatings resistant to rust, corrosion	.6	Special equipment. Spraying booths. Turntables
.4	Coatings for special purposes 667.637.4:536.522.3 Temperature-indicating paints :620.193.8 Coatings with biological action. Bactericidal, fungicidal paints etc. —667.629.9 :621.315.617 Insulating lacquers :628.9.03 Luminescent paints (luminous paints) :699.812 Fire-resistant coatings	.691	Agents and methods for removal of coatings. Stripping agents (Paint removers. Paint strippers)
8	Coatings for production of particular surface effects 667.637.8 ≈ 667.629.8	667.7	COLOURING, STAINING ETC., OF VARIOUS MATERIALS (EXCEPT PRINTING AND PAINTING) —667.5/.6; 677.027.4
.638	Coatings according to function in the coating system	.74	Colouring of wood (e.g. wood staining, smoking)
.2	Primers. Priming paints	.75	Colouring, staining of natural and artificial stone, cement etc.
.4	Undercoat paints. Intermediate coats. Fillers. Putties	.76	Colouring, staining of metal —535.662; 621.357.8; 621.785.7; 621.794.5; 669...69
.6	Final coats (top coats). Finishing paints	.772	Colouring, staining of leather. Leather dyeing —675.026.1; 675.046
.64	Coating technique, processes —698.1	.773	Colouring, staining of rubber and plastics
644	Coating application technique 667.644 ≈ 667.634, e.g. 667.644.3 Application by spraying. Spray-painting. Paint spraying	.777	Colouring, dyeing of foodstuffs —637.238.2; 637.338.2; 663.052
.645	Drying of the coating 667.645 ≈ 667.635, e.g. 667.645.3 Drying at normal temperature. Quick-drying (rapid-drying) methods	.78	Colouring, staining of transparent materials
646	Coating technique according to substrate (material to be painted) 667.646 ≈ 667.636	.781	Colouring of liquids
647	Coating technique according to properties of coating	.783	Production of light filters (e.g. by staining of glass, gelatines) —666.1.058.1; 666.24
2	Coating according to binder 667.647.2 ≈ 667.621, e.g. 667.647.22 Coating with water-based paints etc. (from 667.621.2)		
4	Coating according to colorant, pigment, dye 667.647.4 ≈ 667.622		
.648	Production of the individual coats —677.638		
1	Preliminary work. Removal of old coats (stripping of paint etc.)		
.2	Rust-proofing. Application of anti-rust undercoat		
.3	Priming		
.4	Application of undercoats, intermediate coats		
.6	Application of final coat (top coat)		
.8	Finishing work. Sanding. Polishing. Stoving		

669	METALLURGY	669...8	Specific metals and/or alloys applied as coating, cladding or plating —669.058 and references there; for the metal to be plated — 669...699
	—539.4/.5; 546.3/.9; 620.18; 621.7/.9; 622; 661.8		
	Direct subdivision of principal divisions	...84	Coatings of the metal and/or its alloys on non-metallic materials, e.g. 669.718.4 Aluminium coatings on non-metals (from 669.71 and ...84) :676 Aluminium coatings on paper and board
669...1	General works on the metallurgy of individual metals. Production. Significance		
...3	Extraction from ores. Extraction metallurgy, e.g. 669.33 Extraction metallurgy of copper. Copper extraction (from 669.3 and ...3)	...85	Coatings of the metal and/or its alloys on the same metal or its alloys
...4	Purification. Refining. Recovery	...86	Coatings of the metal and/or its alloys on other metals
...41	Refining by chemical means	...87	Electrolytic deposits of the metal and/or its alloys on other metals or their alloys
...42	Refining by physical means		
...43	Special refining processes for particular metals For subdivisions, see individual metals at 669.2/.8	Special auxiliary subdivisions	
...47	Electrolytic refining with the metal as anode	669-1/-9	State and form of the metal. Details of machinery and tools for metallurgy. Special processes As indicated at 66, the -1 auxiliaries listed under 62 are not applicable here; the -2/-9 auxiliaries here derive from those listed at 62-2/-8 and 66-9
...48	Recovery from scrap, waste products or alloys		
...5	Alloys —669.017.1; 669.018 Alloys are classed preferably under the metal that forms the main constituent. They may be classed according to composition or properties. 1. To denote alloys according to properties — 669.018 2. To denote alloys according to composition, .018 is also used if the concept is represented by a range number (a compound formed with the extension sign /), e.g. [669.21/.23].018 Alloys of noble metals [669.85/.86].018 Alloys of rare earth metals Other alloys are classed at the number for the main constituent, followed by the suffix 5; further constituents, in order of diminishing quantity (or in UDC order if preferred or if the ratio of constituents is unknown), are denoted by adding the subdivisions of 669.2/.8, with the digits 669 replaced by an apostrophe, e.g. 669.215 Gold alloys (from 669.21 and ...5) 669.215'22 Alloys of gold and silver ('22 is from 669.22) 669.35 Copper alloys (from 669.3 and ...5) 669.35'5'6 Alloys of copper, zinc and tin ('5 is from 669.5; '6 is from 669.6)	669-1	State of the metal or alloy, according to treatment —669-4 Metals in natural state Rolled metals —669-177 Drawn metals Extruded metals Worked or wrought metals. Hot-formed metals Worked or wrought metals generally Beaten metals Hammered metals Forged metals Pressed metals —669-126 Stamped metals Metals prepared by powder metallurgy. Green compacts. Sintered compacts —621.762 Cast metals —621.74 Sand-cast metals Centrifugally cast metals Die-cast, injection-moulded metals Chill-cast metals Precision-cast, e.g. investment-moulded metals Compound-cast metals Continuously cast metals Heat-treated metals Details by :621.785 —669-97 Heated metals generally Rate of heating Soaked metals Defective heating Annealed metals Black annealed Bright annealed Annealed by processes involving phase transformation Annealed without phase transformation Melted, molten metals Case-carburized metals. Surface-hardened metals Case-carburized without hardening Case-hardened. Pack-hardened Nitrided. Carbo-nitrided. Cyanided metals Surface-hardened by localized heating. Flame-hardened —621.785.54 Hardened, quenched metals Hardened in air jet
	1. To denote alloys according to properties — 669.018	-11	
	2. To denote alloys according to composition, .018 is also used if the concept is represented by a range number (a compound formed with the extension sign /), e.g.	-122	
	[669.21/.23].018 Alloys of noble metals	-124	
	[669.85/.86].018 Alloys of rare earth metals	-126	
	Other alloys are classed at the number for the main constituent, followed by the suffix 5; further constituents, in order of diminishing quantity (or in UDC order if preferred or if the ratio of constituents is unknown), are denoted by adding the subdivisions of 669.2/.8, with the digits 669 replaced by an apostrophe, e.g.	-13	
	669.215 Gold alloys	-131	
	(from 669.21 and ...5)	-132	
	669.215'22 Alloys of gold and silver ('22 is from 669.22)	-133	
	669.35 Copper alloys	-134	
	(from 669.3 and ...5)	-135	
	669.35'5'6 Alloys of copper, zinc and tin ('5 is from 669.5; '6 is from 669.6)	-136	
...6	Fabrication and finishing of specific metals and/or alloys	-138	
	Details by colon, e.g. 669.36 Finishing of copper	-14	
...69	Surface finish, coating, colouring etc. of specific metals and/or alloys	-141	
	—667.6, e.g. 667.636.2; 667.76	-142	
...691	Oxidized finish. Anodized finish	-143	
...692	Dyed finish	-144	
...693	Ceramic finish. Vitreous enamelling	-145	
	—666.29	-146	
...695	Rubber or plastics bonded finish	-147	
	—678.066	-15	
...696	Paint finish. Lacquer finish	-151	
...699	Metal finishes. Cladding, plating etc. Cf. 669...8	.6	
...7	Uses, applications of specific metals and/or alloys	.7	
	Details by colon, e.g. 669.37 Applications of copper	.8	
	:663.4 Applications of copper in brewing	-153	
		.3	
		.4	
		.6	
		.7	
		-154	
		-155	
		.1	
		.2	
		.3	
		.4	
		-156	
		.2	

669-156.3	Hardened in water or aqueous solutions	669.014.76	Reactions in the zone of formation of the metal
.4	Hardened in liquid air or similar medium		
.5	Hardened in oil	.8	Irregularities in the reactions. Irregular working of furnace: too hot, too cold. Excess or shortage of ores. Explosions. Eruptions
.6	Hardened in molten metals or salts		Products of metallurgical processes
.7	Hardened in solid media, e.g. sand	.015	<i>Class only general matters here. For individual products — 669.17.8</i>
-157	Tempered and aged metals		Intermediate products
.2	Tempered metals	.2	Crude metal products
.8	Aged metals. Age-hardened metals.	.3	Pure metal products
	Precipitation-hardened metals	.4	Super-pure metal products
.9	Metals treated by combined processes	.5	Gases. Blast-furnace gas
-158	Cooled metals	.7	Solid by-products
.8	Rate of cooling	.8	—66.046.58/.59
-159.2	Low-temperature treated metals	.9	Losses
-17	Metals structurally modified (chiefly crystal structure) by means other than heat treatment alone	.017	Physical metallurgy of individual metals
	Single crystal, monocrystal metals	.1	Alloy systems
-174	Recrystallized metals		—669...5; 669.112.2
-175	Metals with abnormal grain size	.3	Phase transformations
-176	Metals with preferred orientation	.018	Metallic materials from the point of view of their general properties. Alloys in general
-177	Work-hardened metals. Strain-hardened metals		—669...5
	—669-122	.2	Metals and alloys with special mechanical properties
-178	Metals electromagnetically modified, hardened etc.	.23	Easily machinable. Free-machining metals and alloys
-19	Metals characterized by other special features		—669.018.26
	<i>For subdivisions — 669.15, 669.35</i>	.24	Bearing metals and alloys
-2	Fixed and movable components of machines, apparatus, equipment	.25	Exceptionally hard or wear-resistant metals and alloys (including hardmetals)
	669-2 $\approx$ 62-2		—661.665.2; 669.018.9
-4	State, condition, form of metallurgical products (and semi-finished materials)	.26	Easily deformable metals and alloys. Deep drawing alloys. Soft alloys (e.g. soft steel)
	—669-1		—669.018.23; 669.127.5
	669-4 $\approx$ 62-4, e.g.	.27	Metals with high elasticity (e.g. metals for springs)
	669-403 Gaseous state	.28	Casting alloys (used principally in the cast state)
	-404 Liquid state. Molten state	.29	Structural, constructional metals and alloys
	-405 Solid state. Solidified state		—691.7
	-408 Surface condition of metal objects	.4	Metals and alloys with special thermal properties
	-41 Flat metal objects (e.g. ingots, plate, sheet, strip)	.42	Metal and alloys with low melting point
	-42 Metal sections. Profiled metal objects	.44	Creep-resistant metals and alloys
	-436 Spherical and spheroidal metal objects (e.g. metal balls)	.45	Metals and alloys with high melting point
	-462 Closed hollow sections of metal (e.g. metal pipes, tubes, hoses)		—669.018.9
	-492.2/.3 Metal powders, grains, shot	.47	Metals and alloys with special expansion properties. Metals and alloys with low expansion, e.g. invar
-5/-8	Details of metallurgical machines and apparatus	.5	Metals and alloys with special electrical and magnetic properties
-5	Operation and control of machines and processes	.52	With low electrical resistance
	669-5 $\approx$ 62-5		669.018.52:621.315.1 Metals and alloys for bare lines, overhead lines
-6	Fuel and other heat source characteristics of machinery and installations	.54	With high electrical resistance
	669-6 $\approx$ 62-6	.55	With constant electrical resistance
-7	Servicing, maintenance, protection of machines, apparatus, plant and installations	.57	For thermocouple elements
	669-7 $\approx$ 62-7	.58	With special magnetic properties
-8	Motive power or force characteristics of machines and apparatus	.6	Metals and alloys with other special physical properties (e.g. acoustic, optical, density)
	669-8 $\approx$ 62-8	.7	Metals and alloys with special chemical properties
-9	Metallurgical process characteristics and variables. Control conditions	.72	Pyrophoric metals and alloys
	669-9 $\approx$ 66-9 e.g.	.73	Metals and alloys with reducing properties (e.g. for production of hydrogen)
	669-97 Thermal characteristic data.	.74	Non-sparking metals and alloys
	Temperature. Temperature range	.8	Corrosion-resistant alloys
	—669-15		669.018.8 $\approx$ 620.193
	-98 Pressure. Pressure range	.9	Pseudo-alloys and similar metallic combinations (e.g. cermets)
669.01	Metallurgy in general		—666.798; 669.018.25; 669.018.45
	—620.18	669.02/.09	Metallurgical processes and equipment
.013.5	Metallurgical plant and works		669.02/.09 $\approx$ 66.02/.09
.014	Reactions involving metals	.04	Heating, melting and refining processes and plant
.6	Behaviour of the individual elements		669.04 $\approx$ 66.04, e.g.
.7	Reactions according to where they take place		
.72	Reactions in the combustion zone		
.74	Reactions between the evolved gases and the ores and fluxes		

- 669.04 (cont'd) 669.046 Thermal processes and plant in metallurgy. Heating and melting processes
—especially 66.046.4/.5
- .05 General and fundamental metallurgical processes
Despite the notational appearance, the .052/.054 subdivisions are for use only as main numbers; they may not be detached and applied to the direct divisions of 669
- Principal divisions**
- 669.052 Generalities on treatment of ore mixtures
—622.7
- .053 Generalities on extraction of metals.
Extraction metallurgy in general
For extraction of specific metals — 669...3
- .2 Dry extraction of metals. Pyrometallurgy
- .4 Wet extraction of metals. Hydrometallurgy
- .054 Generalities on refining of metals
- .1 Metal refining by chemical and similar means
Details by :66.06/.08
—669.04
- .2 Metal refining by physical means
Details by :66.06/.08
—669.04
- .7 Metal refining by electrolysis
- .72 In molten salt baths
- .76 In aqueous solutions
- .8 Utilization of scrap, waste products.
Generalities on the recovery of metals from scrap. Separation of alloy components
- Special auxiliary subdivisions**
- 669.056 Fabrication, treatment and finishing of metals in general
—621.7/.9
- .9 Surface finish, coatings, colourings etc. on metals in general. Surface-finished metals (e.g. coated, coloured, anodized metals)
669.056.9 ≈ 669...69
—621.793/.795
- .058 Metals applied as finish (on metal or any other material). Metal coatings, platings, claddings etc.
—621.357; 621.793; 66.087; 667.649.2; 669...8; 686.4
- .09 Other metallurgical processes
669.09 ≈ 66.09, e.g.
669.094.1 Reduction of metals in general.
Hydrogenation
.22 Reduction using charcoal, coke and other substances with high carbon content
.23 Reduction using metals, in general (e.g. with aluminium. Aluminothermy, thermite process)
- Principal divisions**
- 669.1 FERROUS METALLURGY. IRON AND STEEL
669.1.017 Physical metallurgy of ferrous metals
- .11 **Iron and its alloys with carbon alone**
—669.15
- .111 Condition of carbon in iron and steel
669.111:669.15 Effect of other alloying elements
- .2 As elementary carbon (graphite)
- .3 As carbide. Iron carbides. Cementite
- .4 As dissolved carbon
- .112 Form of iron and carbon in various types of iron and steel
- .2 Iron-carbon system (iron-carbon phase diagram)
—669.017.1
669.112.2:669.15 Effect of other alloying elements
- .21 Above liquidus
- .22 Iron-cementite region (metastable system)
- .224 Eutectic (ledeburite)
- .227 Gamma range. Austenite. Austenite transformation. Pearlite. Bainite. Martensite
- .228 Alpha range. Ferrite. Tertiary cementite
- 669.112.24 Iron-graphite region (stable system)
Pure iron
—546.72; 669.17
- .127 Forms of pure iron
- .3 Electrolytic iron
- .4 Chemically produced iron. Iron carbonyl.
Ferrum reductum
- .5 Soft iron. Other technically pure grades of iron
—669.018.26
- .8 Special forms of pure iron. Pyrophoric iron.
Colloidal iron. Iron in thin films. Others
- .13 **Cast iron**
—669.15-196; 669.162.275.1
669.13...6/...8 Fabrication, application, use as coating
- Special auxiliary subdivisions**
- 669.13.018 Cast irons according to their properties
669.13.018 ≈ 669.14.018
- Principal divisions**
- 669.131 Types of cast iron
- .2 White cast iron
- .4 Mottled cast iron
- .6 Grey cast iron
- .7 Spheroidal graphite cast iron
- .8 Malleable cast iron
- .132 Influence of non-metals other than carbon
- .14 **Alloys of iron with carbon (other than cast iron). Steel in general**
669.14...6/...8 Fabrication, application, use as coating
- Special auxiliary subdivisions**
- 669.14.018 Steels according to their properties
669.14.018:621.791 Weldable steels
Further details from 669.018 (if not enumerated below), e.g.
669.14.018.29 Structural, constructional steels
- .41 Low-temperature steels
- .44 Creep-resistant steels
- .48 Non-strain-ageing steels
- .582 Permanent magnet steels
- .583 Dynamo steels. Transformer steels
- .584 Non-magnetic steels
- .8 Corrosion-resistant steels. Stainless steels
- .89 Non-ageing steels
- Principal divisions**
- 669.141 Steels according to method of production
- .1 Steels produced by direct processes
- .2 Wrought iron made by the decarburization of pig iron. Steel made by the decarburization of pig iron or by remelting of scrap
- .22 Wrought iron
- .23 Damask steel
- .24 Mild steel
- .243 Open-hearth steel (Siemens-Martin steel)
- .244 Bessemer steel
- .245 Steel made by various pneumatic processes (e.g. Kaldo process)
- .246 Crucible steel
- .247 Electric steel (electric-furnace steel)
- .25 Steel for castings
669.141.25 ≈ 669.141.24
- .3 Carburized steel. Cemented steel. Shear steel
- .15 **Alloys of iron with elements other than carbon. Alloy steel. Alloyed cast iron. Ferroalloys**
—669.11
- Special auxiliary subdivisions**
- 669.15-192 Carbon-free ferrous alloys
Denote composition by combination with other direct divisions of 669, with apostrophe replacing the digits 669, citing the components either in order of relative quantity in the alloy (the greatest first) or, if preferred, in UDC order, e.g.
669.15'24'25-192 Carbon-free iron-nickel-cobalt alloys
(*'24 is from 669.24; '25 is from 669.25*)
See also examples under 669...5

669.15-194	Low-carbon ferrous alloys. Alloy steels
	669.15'24'26-194 Low-carbon alloys of steel, nickel and chromium.
	Chromium-nickel steel
	('24 is from 669.24;
	'26 is from 669.26)
	'28-194 Molybdenum steel
	('28 is from 669.28)
.2	Low-alloy steels
.3	High-alloy steels
-196	High-carbon ferrous alloys. Alloyed cast iron
	—669.13
	669.15'24'25-196 Nickel-cobalt cast iron
	('24 is from 669.24;
	'25 is from 669.25)
-198	Ferroalloys
	669.15'74-198 Ferromanganese
	('74 is from 669.74)
Principal divisions	
669.16	Production of pig iron and ferroalloys
	—622.79
.162	669.16.013.5 Pig iron plant
.1	Production of pig iron. First smelting
	Raw materials and additions. Their preparation for use in blast furnace. Burden
	<i>Class only general matters here</i>
	—622.78
.12	Iron ores
.14	Additions
.16	Coal and coke for pig iron production
.2	Blast furnaces. Operation of blast furnaces
	—66.041.53
.211	Dimensions of blast furnaces. Profiles
.212	Blast-furnace lining materials
2	Stack lining
.3	Dam stone. Tymp stone. Baffle stone
4	Bosh lining
.6	Hearth lining
.214	Cooling of blast furnace
.215.2	Furnace tops
.4	Gas offtakes
.216.2	Tap-hole fittings
4	Mixtures for plugging tap-hole
6	Slag notch
.218	Securing the wall and hearth against break-outs
.22	Supply of blast to the furnace
.221	Tuyeres. Tuyere connections
.222	Blast main Blast-furnace gas main. Explosion valves
.223	Blowers
	—621.61
224	Drying of blast Oxygen enrichment of blast
225	Regulations of moisture in blast. Steam injection
227	Working at high or top pressure
228	Blast volume, pressure and consumption. Total cross-section at which blast is applied
	Number of tuyeres and emergency tuyeres
23	Blast heating. Hot-blast stoves
231	Brick stoves with intermittent heating
232	Cast iron hot-blast stoves
233	Continuous-pipe stoves
236	Equalizers
238	Operation of hot-blast stoves Heat balance
24	Charging of blast furnaces Furnace hoists
242	Charging by means of inclined hoists, skip bridges, bucket elevators
244	Furnace hoists
25	Cleaning and utilization of blast-furnace gas
	—669.162.275 3/.4
251	Utilization of blast-furnace gas in recuperators
252	Gas cleaning. Gas cleaners
	—621.928.9; 66.074
.26	Operation of blast furnaces
.261	Putting into operation
.2	Drying of lining
.3	Charging. Lighting. Blowing-in
.262.3	Burdening

669.162.262.5	Calculation of the burden. Slag rates
.6	Calculation of additions
.263	Reactions and processes in the blast furnace
.2	Course of the reactions
.4	Reactions in the blast furnace
	—669.014
.264	Irregularities in blast-furnace-operation and their prevention
.266	Tapping of the blast furnace
.2	Tapping of pig iron
.4	Tapping of slag. Transport of slag
.267.2	Changeover to other grades of pig iron
.3	Reduction of output. Damping down. Blowing out
.4	Operation with various fuels. Injection of solid, liquid or gaseous fuels
.6	Desulphurization of pig iron
.27	Economy and output of blast furnaces
	—66.012
.275	Composition of blast-furnace products
.1	Pig iron. Iron cast in the first melt
	—669.13
.2	Blast-furnace slags
.3	Blast-furnace gas
	—669.162.25
.4	Flue dust
.8	Blast-furnace by-products. Recovery of zinc
.28	Studies of the blast-furnace process. Theories of the blast furnace. Reduction experiments
.3	Charcoal blast furnaces
	669.162.3 ≈ 669.162.2
.4	Electric blast furnaces
	669.162.4 ≈ 669.162.2
.6	Production of synthetic pig iron
.163	Production and utilization of iron cast in the first melt. Blast-furnace castings. Pigs, ingots, tubes
	—621.74
.168	Production of ferroalloys (in blast furnace, in electric furnace, by aluminothermy)
	—669.719
.17	Production of pure iron
	—546.72; 669.12
.173	Production of pure iron by chemical means (e.g. by reduction of iron oxide or iron carbonyl)
.177	Electrolytic production of pure iron
Special auxiliary subdivisions	
669.177.035	Components of electrolytic production plant
	669.177.035 ≈ 621.3.035, e.g.
	669.177.035.4 Electrolytes, baths for electrolytic production
Principal divisions	
669.179	Other methods of production of high-purity iron
.18	Production of steel
	669.18.013.5 Steel production plant. Steelworks
.181	Direct processes for production of wrought iron, sponge iron and steel
2	Direct processes for production of wrought iron and steel (e.g. Catalan process)
.22	Direct processes in pits
.23	Direct processes in hearths
.24	Direct processes in shaft furnaces
.25	Direct processes in rotary furnaces, crucibles, muffles, retorts
.26	Direct methods in reverberatory furnaces
.27	Direct methods in electric furnaces
.28	Slags from direct processes
.4	Production of sponge iron
.42	Treatment of ores with reducing agents but without flux
.44	Treatment of ores with reducing agents and fluxes
.46	Treatment of ores with salts and fluxes
182	Production of steel by cementation. Indirect processes for production of wrought iron. Refining. Puddling

669.182.3	Production of cemented steel, shear steel, faggotted steel, damask steel	669.184.14	Blast supply to converters
.7	Indirect production of wrought iron. Refining.	.141	Blast consumption. Blast pressure
	Puddling	.142	Blast cross-section. Nozzle diameter of tuyere. Number of tuyeres
.71	Refining	.143	Drying of blast. Heating of blast
.73	Puddling	.144	Composition of blast (air blast, other gases, etc.) Direction of blast
.183	Steel produced in reverberatory furnaces.		Waste gases and fumes from converter processes (and similar processes)
	Open-hearth steel (Siemens-Martin steel)	.15	Losses in converter process. Oxidation loss.
.2	Open-hearth processes	.16	Ejection. Converter dust (flue dust, roof dust)
.21	Open-hearth furnaces	.18	Acid Bessemer slags
.211	Generalities. Structural details	.2	Basic Bessemer process (Thomas process)
	669.183.211-6 Open-hearth furnaces according to fuels, heat sources (from 62-6)	.28	669.184.2/.26 $\approx$ 669.184.1/.16
.1	Open-hearth furnaces. Modified open-hearth furnaces	.288	Basic Bessemer slags (Thomas slags) —631.853
.2	Hearths		Recovery of various components
.3	Furnace walls. Crown. Roof		669.184.288:669.292 Recovery of vanadium
.4	Charging holes. Furnace doors	.4	Mixers. Pig iron mixers
.5	Tap-hole. Tapping spout. Pouring hole	.186	Production of crucible steel (cast steel)
.212	Blocks. Burners. Gas and air uptakes	.2	Crucibles. Crucible materials
.2	Blocks for gas combustion		669.186.2:666.762 Crucible manufacture (according to composition)
.3	Burners for fuel oil		.1 Crucibles of alumina or fireclay
.4	Gas uptakes		
.5	Air uptakes	.3	Crucible furnaces
.6	Roof lances for oxygen injection, for decarburation etc.	.4	Charges for production of crucible steel
.213	Regenerators	.5	Working methods Operation. Reaction
.1	Design. Arrangement	.52	Furnace equipment. Charging
.2	Checkers. Checker grids. Checker bricks	.55	Reactions in the crucible
.3	Sizes of gas chambers and air chambers. Ratio of sizes		—66.046.5
.4	Slagging of checkers. Slag chambers. Slag pockets	.58	Crucible slags
.8	Reaction in regenerators. Cleaning of regenerators	.187	Production of electric steel (electric-furnace steel)
.214	Gas ports. Air ports. Valves	.2	Electric steel furnaces. Electric process
.2	Gas ports		—621.365
.3	Air ports		Special auxiliary subdivisions
.6	Valves (reversing valves)		669.187.2.036 Individual parts of electric steel furnaces
.62	Gas valves		669.187.2.036 $\approx$ 621.3.036
.64	Air valves		Principal divisions
.215	Furnace anchoring. Chamber anchoring	669.187.23	Furnace bottoms and lining
.217.2	Regenerative firing	.24	Furnace roofs and linings Lances for oxygen lancing
.4	Recuperative firing	.25	Melting processes
.218	Operation of open-hearth furnaces. Melting process		—669.046
.22	Refining with ore	.28	Electric steel slags
.23	Scrap process	.3	Acid electric steel furnaces Acid electric process
.28	Open-hearth slags		669.187.3 $\approx$ 669.187.2
.3	Acid open-hearth process	.4	Basic electric steel furnaces. Basic electric process
	669.183.3 $\approx$ 669.183.2		669.187.4 $\approx$ 669.187.2
.4	Basic open-hearth process	.5	Electric remelting processes and furnaces
	669.183.4 $\approx$ 669.183.2		
.5	Multiplex processes. Duplex processes	669.2/.8	NON-FERROUS METALLURGY.
.52	Converting as primary process		NON-FERROUS METALS
.54	Open-hearth as primary process	669.21/.23	Noble metals
.57	Other duplex processes		—671; 739.1
.58	Triplex processes.	.21	Gold
	Converter/open-hearth/electric furnace	.213	Extraction of gold
.184	Converter process. Principles of converting	.1	Extraction of auriferous sands and ores by comminution and washing
.1	Acid Bessemer processes	.2	Extraction of gold by mercury. Amalgamation and distillation
	—66.041.498	.3	Wet extraction of auriferous sulphides.
.12	Acid converters		Roasting smelting. Second roasting. Melting in the presence of lead. Cupellation
.121	Dimensions. Volume. Shape	.4	Extraction of gold by chlorination.
.122	Parts of converters. Casing, nose, body, bottom. Converter trunnion rings. Blast boxes. Tuyere blocks		Chlorination plant. Screens. Filters.
.123	Suspension of converters. Tipping arrangements	.5	Chlorination towers
.124	Converter bottoms. Materials of bottom	.6	Extraction of gold by bromine
.125	Lining of converter walls	.214	Extraction of gold by leaching with cyanide
.126	Arrangement of converter plants. Converter chimneys		Separation of gold from accompanying metals. Gold refining
.132	Method of operation	.215	Gold alloys
.1	Normal, too hot and overblown melt		—669.791.5
.3	Cooling by addition of scrap or ore		669.215'3 Alloys of gold and copper
.135	Reactions in acid converter		
.136	Control of process by study of flames		

669.216	Fabrication and finishing of gold. Production of gold leaf, foil. Production of gold sheet —667.649.2; 667.661.5	669.35 (cont'd)	669.35'5'6 Alloys of copper, zinc and tin. Gunmetal '6 Alloys of copper and tin. Bronzes
.218	Gold applied as coating or plating. Gilding.	Special auxiliary subdivisions	
.22	Gold-plating	669.35-191	Alpha structure
.223	Silver		669.35'6-191 Alpha bronze
.1	Extraction of silver	-192	Beta structure
	Extraction of silver by lead —669.443.4	-193	669.35'6-192 Beta bronze
.3	Extraction of silver with mercury. Amalgamation —669.791.5		Gamma structure
.4	Extraction of silver by solution and precipitation	Principal divisions	669.35'5-193 Gamma brass
.228	Silver applied as coating or plating. Silvering. Silver-plating —666.1.056	669.38	Copper and/or its alloys applied as coating etc. Copper plating
.23	Metals of the platinum group	.4	Lead
.231	Platinum	.43	Extraction of lead
.6	Fabrication and finishing of platinum. Platinum sponge. Platinum black	.431	Dry extraction of lead. Dry processing of galena (lead sulphide)
.232	Iridium	.1	Preliminary treatment of galena
.233	Osmium	.2	Reduction of oxygen compounds
.234	Palladium	.3	Smelting with iron
.235	Rhodium	.4	Other direct methods (roasting and reaction)
.236	Ruthenium	.6	Treatment of residues, dross, dust
.24	Nickel	.432	Processing of other lead ores
.243	Extraction of nickel	.436	Wet processing of lead ores (except electrolysis)
.1	Enrichment smelting of nickel in general	.44	Refining of lead
.2	Treatment of sulphide matte	.443.1	Removal of copper from crude lead
.3	Treatment of Swedish nickel and cobalt ores —669.253.2	.2	Removal of tin, arsenic, antimony from lead.
.4	Treatment of arsenical ores	.3	Softening, improving of lead
.5	Treatment of New Caledonian ores. Garnier process	.4	Removal of zinc and cadmium from lead
.6	Treatment of Canadian ores, Sudbury ores, others	.4	Removal of gold and silver from lead —669.223.1
.7	Extraction of nickel as nickel carbonyl. Langer process. Mond process	.6	Removal of bismuth from lead. Debismuthing
.87	Electrolysis of crude nickel	.5	Zinc
.88	Electrothermal production of nickel. Ferronickel production	53	Extraction of zinc
.248	Nickel applied as coating etc. Nickel plating	.531	Dry extraction of zinc
.25	Cobalt	.2	Muffle processes in general. Horizontal retort processes
.253.2	Extraction of cobalt during nickel production —669.243.3	.4	Shaft-furnace processes. Vertical retort processes
.26	Chromium	.5	Processes with rotary tube furnaces. Rotary kiln process (Waelz process)
.268	Chromium applied as coating etc. Chromium plating	.6	Extraction of zinc oxide
.27	Tungsten	.7	Treatment of zinc ore in the blast furnace
.28	Molybdenum	.8	Electrothermal methods. Snyder and De Laval process
.292	Vanadium	.58	Zinc applied as coating or plating.
.293	Niobium	.586.5	Galvanizing
.294	Tantalum	.587	Hot-dip galvanizing
.295	Titanium	.6	Electro galvanizing
.296	Zirconium	.65	Tin
.297	Hafnium		Tin alloys
.298	Thorium		669.65.018.24 White bearing metal (Babbit's metal)
3	Copper		669.65'4 Alloys of tin and lead. Soft solders (from a metallurgical point of view) (<i>'4 is from 669.4</i>) —621.791.3
33	Extraction of copper	.68	Tin applied as coating etc. Tin plating
331	Dry extraction of copper. Roasting Pretreatment	.686.5	Immersion method of tin plating. Dipping.
332	Production of copper matte	687	Production of white metal
3	Pyritic smelting	.7	Electrolytic tin plating
4	Semi-pyritic smelting. Partial pyritic smelting		Light metals in general
5	Orkla process		669.7.018 Light metals according to their general properties. Alloys of light metals in general
333	Production of crude copper. Reduction of oxide. Smelting in converters	.71	Aluminium
4	Treatment of crude copper matte. Impurities	.712	Preparation of intermediate products from raw materials. Production of alumina
5	Refining of black copper. Rosette copper		Alkaline treatment. Processes for aluminates (except aluminate production in electric furnace)
6	Fire refining of blister copper. Production of malleable copper	.1	Acid treatment. Production of alumina from aluminium salts
7	Treatment of ores containing metallic copper	.2	Electrothermal processes. Processes involving compounds other than aluminates or aluminium salts as intermediate products (e.g. nitrides, carbides, sulphides) —621.365; 661.862
334	Wet extraction of copper. Chloridizing. Sulphatization. Cementation. Refining	.3	
35	Copper alloys 669.35'24 Alloys of copper and nickel. Cupro-nickel '5 Alloys of copper and zinc. Brass. Tombac		

669 712.4	Other processes. Decomposition of aluminium silicate by superheated steam	669.782	Silicon. Silicothermy
.5	After treatment of alumina and aluminium hydroxide. Purification of alumina	.783	Germanium
.713	Extraction of aluminium and aluminium alloys from aluminium compounds	.784	Carbon
.1	Production by purely chemical, non-electrolytic methods	.785	Gases in metals in general
.6	Electrothermal production	.786	Nitrogen
.7	Electrolytic production	.787	Oxygen
.714	Refining of aluminium and aluminium alloys	.788	Hydrogen
716.9	Surface finishing, coating, colouring of aluminium. Anodizing, dyeing etc.	.791	Mercury
.719	Aluminothermy. Production of metals with high melting points. Production of high temperatures by oxidation of aluminium —621.791.6; 669.17	.5	Mercury alloys. Amalgams —669.215; 669.223 3
.721	Magnesium	.793	Scandium
.725	Beryllium	.794	Yttrium
.73	Cadmium	.822	Uranium
.74	Manganese	.823	Neptunium
.75	Antimony	.824	Plutonium
.76	Bismuth	.848	Technetium
.77/.78	Various non-metal constituents of alloys. Metalloids <i>Only from the point of view of their influence on metals and alloys. For production of metalloids in their own right — 661</i>	.849	Rhenium
.774	Polonium	.85/.86	Rare earth metals 699.85/ 86 $\approx$ 546 65/ 66
.775	Sulphur	.871	Gallium
.776	Selenium	.872	Indium
.777	Tellurium	.873	Thallium
.778	Arsenic	.88	Alkali metals —661.3
.779	Phosphorus	.882	Potassium
.781	Boron	.883	Sodium
		.884	Lithium
		.885	Rubidium
		.886	Caesium
		.89	Alkaline earth metals
		.891	Calcium
		.892	Strontium
		.893	Barium
		.894	Radium

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67 VARIOUS INDUSTRIES, TRADES AND CRAFTS

Special auxiliary subdivisions

The -1/-8 special auxiliaries listed under 62, and the -9 auxiliaries listed under 66, are applicable throughout 67, except for -1 and -9 under 678

67.01	Generalities on the individual industry
.014	Chemical constitution and properties of materials
.017	Physical and mechanical properties, workability and serviceability of materials —620.17
.019	Faults, defects, damage of materials —620.19
.02	Manufacturing processes
.03	Raw materials
.04	Auxiliary materials
.05	Machinery. Plant. Tools —621.7; 621.9
.06	Products
.08	By-products. Wastes

Principal divisions

671 ARTICLES OF PRECIOUS METALS, GEMS, 672 11304>PRECIOUS STONES

	—669.21/23
.1	Gold and silver articles. Articles of other precious metals. Jewellery —391.7; 681.11; 739.1/2
.11	Gold and silver articles. Engraved and embossed articles
.12	Jewellery
121.2	Brooches. Decorative pins, clasps
.3	Bracelets, wristwatch bands etc. Closures, buckles etc. for bracelets
.4	Ear jewellery. Earrings, ear-clips etc. Ear-piercers
.5	Rings (finger rings). Wedding rings etc. Signet rings
.6	Key rings. Security devices for watches, bracelets etc.
.9	Other decorative objects. Articles of guilloché, lattice metalwork. Pendants. Locketts
.123	Jewellery for the head. Tiaras, diadems etc.
.125	Various regalia, insignia. Sceptres. Crowns. Sword or dagger hilts, sheaths. Batons, staffs of office
.128	Badges and similar decorations —355.134; 671.42; 929.71
.13	Other articles of precious metals Chains, cases, boxes (e.g. snuffboxes) etc. Pens and nibs of precious metals —672.86
14	Articles coated with gold or silver. Articles of gold and silver plate, rolled gold and silver
15	Working of precious stones, gems, pearls —679 8 02
16	Articles of non-precious stones. Articles of paste, imitation gems —666 23; 679 88
18	Jewel settings
2	Small articles of various metals and alloys. Fancy jewellery (of non-precious or imitation precious metals etc.)
4	Manufacture of coins and medals. Minting —737 671 4 02 Manufacturing processes for coins and medals
41	Coins —336.746
411/ 418	Metal coins 671.411/.418 ≈ 669 1/.8, e.g. 671 412.1 Gold coins (from 669.21)
419	Non-metallic coins
.42	Medals. Medallions. Plaques. Plaquettes —671.128 671.42 ≈ 671.41

ARTICLES OF IRON AND STEEL IN GENERAL

.1	Articles of cast iron and steel —621.74
.11	Building components and fittings of cast iron and steel —682.6; 691.7
.13	Artistic and ornamental cast iron work —673.3; 682.64; 739.4
.3	Wrought or forged iron and steel ware —682/683
.4	Tinware. Articles of tin plate and sheet metal
.41	Articles of tin plate and zinc plate. Buckets, tanks etc.
.42	Articles of uncoated steel sheet
.43	Articles of enamelled steel sheet
.46	Preserving cans, tins. Food cans —664.8/9, esp. 664.8.036.5
.462	Closing of cans. Methods of closure
.466	Can openers (tin openers). Hand devices and machines for opening cans —641.516; 683.564
.47	Various small articles. Sleeves, tubes, cases, capsules of sheet metal
.49	Meshes and sieves made from sheet metal —672.85
.6	Chains. Anchors —62-235; 621.85.055; 627.37; 629.12.015
.61	Chains in general. Chain components, links, joints. Welded chains in particular
.62	Unwelded chains
.641	Vaucanson chains. Ladder chains
.642	Galle chains. Roller chains
.643	Dismantlable chains
.66	Anchoring devices. Anchors. Anchor shanks, arms, flukes, stocks
.67	Drags and drums for securing of chains
.7	Cutlery. Cutting and piercing tools and weapons
.71	Cutting and piercing tools and weapons
.711	Knives. Scissors etc. —621.93; 621.96; 631.342; 635-1/-2
.712	Cutting, piercing, stabbing weapons. Daggers. Combat knives 672.711 ≈ 623.444
.713	Pocket knives. Penknives, clasp-knives, jack-knives etc.
.714	Table knives. Kitchen knives. Erasing knives —642.73
.715	Scissors. Shears. Secateurs
.716	Razors. Simple razors. Cut-throat razors.
.717	Safety razors. Razor blades —687.53.052; 646.72
.718	Surgical instruments —615.472.3/.4
.719	Shearing machines, clippers. Hair clippers —687.53.052
.72	Other cutting tools. Hatchets. Choppers. Axes. Others —621.968; 631 342; 674 053
.73	Grinding and sharpening devices Knife sharpeners. Stropps etc.
.76	Forks. Spoons
.8	Small metal articles. Pins Pen nibs Buttons Nails etc.
.81	Pins. Steel pins (for dressmaking etc.). Hatpins. Hairpins. Hair grips. Scarf and tie pins. Safety pins —671.121.2; 687.53.053 5
.82	Needles. Sewing needles. Darning needles Packing needles. Saddler's needles. Bodkins
.83	Awls. Knitting needles Crochet hooks —687.053.2
.84	Fasteners. Buckles. Hooks and eyes. Zip fasteners (zippers) —687.078

672.85	Articles of metal wire and strip. Wire mesh, sieves. Wire netting. Wire springs. Corset rods. Others —621.778; 672.49	674.031.3	White woods. Soft broadleaf woods (not softwoods, for which — 674.032) Hardwoods according to botanical families 674.031.5/.9 is parallel to 582.5/.9; but additional detail is given here	
.86	Steel pen nibs —671.13; 686.863.1	.5/.9	<i>Salix</i> . Willow	
.87	Metal buttons —688.2	.623.22	Juglandaceae, e.g. <i>Carya</i> . Hickory	
.88	Metal fixing devices. Screws, bolts etc. Nails. Tacks —672.88 ≈ 621.88	.628.2	Betulaceae, e.g. <i>Betula</i> . Birch	
.92	Umbrella frames	.632.1	Fagaceae. <i>Fagus</i> . Beech. <i>Castanea</i> . Chestnut.	I
.93	Metal boxes, chests, caskets —683.34	.2	<i>Quercus</i> . Oak	
.94	Metal furniture —645.4; 682.5; 684.4	.635.1	Ulmaceae. <i>Ulmus</i> . Elm. <i>Celtis</i> . Hackberry.	
673	ARTICLES OF NON-FERROUS METALS (EXCEPT PRECIOUS METALS)	.641.6	Others	y
.1	Articles of copper and copper alloys in general	.732	Santalaceae, e.g. <i>Santalum</i> . Sandalwood	
.2	Articles of wrought copper and brass	.739.2	Platanaceae. <i>Platanus</i> . Plane	
.3	Artistic castings of non-ferrous metals. Artistic bronze work —669.35'6; 672.13; 739.4	.751	<i>Dalbergia</i> . Rosewoods. Palisander, kingwood. Sissoo	cts
.4	Articles produced by electroforming (galvanoplasty) —621.357.6	.752.33	Geraniineae, e.g. Zygophyllaceae (<i>Guaiaecum</i> . Lignum vitae), Meliaceae (<i>Chloroxylon</i> . Satinwood)	
.5	Bells. Bellfounding. Carillons —681.819.5	.761.2	Swietenioideae, e.g. <i>Swietenia</i> . Mahogany	:
.6	Fittings for pipes and conduits. Taps. Valves —673.6 ≈ 621.646	.772.2	Buxaceae, e.g. <i>Buxus</i> . Box (boxwood)	hip
.7	Other parts of pipelines, systems 673.7 ≈ 621.647	.795	Aceraceae, e.g. <i>Acer</i> . Maple	
.8	Articles of tin, lead, zinc, light metals etc. Metal tubes	.797	Tiliaceae, e.g. <i>Tilia</i> . Lime, linden	
674	TIMBER AND WOODWORKING INDUSTRY —630*83; 684; 694	.825.6	Bombaceae, e.g. <i>Ochroma</i> . Balsa	
Special auxiliary subdivisions		.883	<i>Shorea</i> . Lauan. Meranti	
674-4	State and form of wood products	.925	Myrtaceae, e.g. <i>Eucalyptus</i> . Gum-tree wood	
	674-4 ≈ 62-4, e.g.	.931.2	Ebenaceae, e.g. <i>Diospyros</i> . Ebony	
	674-412 Round timber. Stems, logs etc.	.949.1	<i>Fraxinus</i> . Ash	
	-413 Thick sheets. Planks, boards etc.	.032	Verbenaceae, e.g. <i>Tectona</i> . Teak	
	-414 Medium-thick sheets. Thin planks, boards etc.	.3/.4	Softwoods. Conifer timbers cf 674.031.3	af
	-415 Thin sheets, e.g. fretworking sheets	.471	Softwoods according to botanical families 674.032.3/.4 is parallel to 582.3/.4; but additional detail is given here	
	-416 Very thin sheets. Veneers	.475.2	Taxaceae, e.g. <i>Taxus</i> . Yew	
	-419 Composite boards and sheets. Laminated board. Plywood	.3	<i>Abies</i> . Fir (deal)	s
	-422 Convex profiles. Solid sections. Rounds. Dowel rod. Strips. Mouldings. Beadings etc.	.4	<i>Larix</i> . Larch	
	-423 Concave profiles. Hollow mouldings. Angle sections etc.	.5	<i>Pinus</i> . Pine (deal). Pitch pine	
674.02	Woodworking processes	.6	<i>Picea</i> . Spruce	
.021	Marking. Measuring	.7	<i>Tsuga</i> . Hemlock wood	
.022	Fixing. Clamping	.8	<i>Pseudotsuga</i> . Douglas fir	
.023	Trimming. Sawing. Cutting. Barking	.476	<i>Cedrus</i> . Cedar	
.024	Chiselling	.037	Taxodeaceae, e.g. <i>Sequoia</i> . Redwood	
.025	Drilling. Boring	.038.1	Artificially coloured woods. Dyed, stained woods. Imitation mahogany, rosewood, ebony. Wood with enhanced grain	
.026	Planing	.15	Woods with various characteristics, according to condition of the various parts of the tree	
.028	Assembling. Bending. Wood joints	.16	Characteristics and defects connected with growth (e.g. spiral-grained wood)	
.1	Joining wooden parts without additional means. Scarfed joints. Mortise-and-tenon joints. Dovetailing. Mitring etc.	.17	Wood from various parts of the tree (e.g. rootwood)	
.2	Dowelled, pegged joints	.18	Texture of the wood. Composition as regards heartwood formation. Heartwood. Mature wood. Close-textured timber. Alburnum (sapwood)	
.4	Screwed joints	.3	Organically changed wood (e.g. rotten, decayed wood)	
.5	Nailed joints	.5	Wood according to kind of preparation (e.g. cleft wood, split logs; sawn wood, planks)	
.6	Cold bending of wood	.6	Woods for various purposes (e.g. structural timber, joinery timber)	
.7	Hot bending of wood	.7	Denote purpose by colon	
.9	Other wood joints, e.g. glued joints	.71	Woods according to processing, working (e.g. sawn, planed, turned, bent wood)	
.03	Species of wood —582; 630	.74	Woods according to texture	
.031	Hardwoods. Deciduous, broadleaf timbers	.78	Closeness of rings in timber (Fine-ringed, close-ringed timber. Broad-ringed timber)	
.1/.3	According to hardness	.04	Wood from various growth periods (early and late wood)	
.1	Hard woods	.046	Textures giving effect of aesthetic, decorative value (e.g. moiré effect, burrs, knots, bird's-eye pattern)	
.19	Very hard woods	.047	Seasoning, impregnation and other treatment of wood	
.2	Semi-hard woods	.1	Scalding. Steam treatment against biological attack	
		.3	Seasoning of timber. Air and kiln drying	
			Air drying. Natural seasoning	
			Artificial drying. Kiln drying	

674.048	Impregnation of wood
.2	Devices and machines for impregnating
.3	Impregnation against vegetable attack (injurious plants)
.4	Impregnation against animal attack
.5	Sealing processes
.049.2	Hardening. Hardening equipment
.3	Fire-proofing. Reduction of flammability, combustibility. Flame-retardant treatment
.05	Woodworking tools. Woodworking machinery
	Further details by :621.9...
.053	Tools for trimming and cutting (e.g. saws, axes)
	—631.342; 621.93; 621.968; 672.719
.054	Tools for mortising, cutting out (Chisels. Gouges)
	—621.911.7
.055	Tools for rasping, filing, boring (Files. Rasps. Drills, braces etc.)
	—621.918; 621.95
.056	Tools for planing (Planes. Scrapers etc.)
	—621.911/.912
.057	Tools for turning and thread-cutting (Lathes. Thread-cutters etc.)
	—621.941; 621.99
.058	Tools for striking, nailing, bending, joining
	674.058 = 674.028, e.g.
	674.058.5 Nailing devices. Hammers.
	Nailing machines
	—621.972/.974
.06	Products of the timber industry. Timber
.061	Specimens of timber. Small, clear specimen (free of knots, defects). Large structural size
.07	Surface treatment of wood
	674.076/.077 = 667.6/.7
	—667.74
.092	Processing of roundwood by hand, especially with rip-saws
.093	Sawmills. Sawmilling industry
Principal divisions	
674.1	Carpentry
11	Structural, constructional carpentry. Roof trusses. Floors. Door frames etc.
	—624.011.1; 694
12	Ship's carpentry
2	Joinery
	674.2-419 Joinery with laminated materials, e.g. plywood
21	Constructional joinery. Joinery for fixtures of buildings. Partitions. Doors. Windows etc.
	—694.6
.23	Furniture-making
	—645.4; 684.4
24	Marquetry Inlay work
	—684.6
.25	Vehicle joinery. Coach-building joinery
	—629.11 011 6; 629.12 011, 629.4.024; 629.4.04
3	Cartwrighting Wheelwrighting
31	Wooden wheels Hubs, naves Spokes Fellies (felloes), rims Tenons
	—629.11 012 3/.6
32	Bodywork Vehicle frame
	—629.11 011 6
4	Cooperage Cask, barrel making
	—621.798.13
41	Parts of casks Staves, heads, hoops etc.
42	Kinds of wooden vessel Casks, barrels.
	Wooden vats, tubs. Wooden buckets, pails
5	Wooden articles and their manufacture.
	Wooden household articles, toys etc.
	—688.7
.6	Box-making. Wooden packaging
	—621.798, esp. 621.798.12
.61	Wooden boxes, crates, packing cases.
	Wooden chests (as packaging)
.62	Wooden trunks. Wooden chests (strongboxes)

674.63	Wattle or wickerwork containers (wicker boxes, hampers, baskets). Wicker furniture
.64	Basketwork covers, casings (e.g. for bottles)
	—677.54
.7	Manufacture of round wooden articles.
	Turnery
.71	Masts. Poles. Round posts. Cable poles (e.g. telegraph poles)
.72	Staves. Rods. Canes. Fishing rods
.73	Walking sticks and canes. Stocks, handles
	—685.557
.75	Tool-handles, helvies
.76	Bentwood (e.g. chair and furniture parts)
.77	Turned wooden articles. Turnery proper
.8	Production and processing of wood chips, shavings, waste. Wood compositions.
	Processing of cork and peat
.81	Consolidated wood. Compressed wood waste
.812	Compressed and laminated wood. Densified wood. Compressed laminates. Compressed plywood
.816	Compositions of wood waste, sawdust.
	Xylolith (plastic of sawdust and Sorel cement). Plastic wood
	—691.33
.817	Products of compressed wood pulp. Wood fibre materials
	674.817-415 Fibreboard sheet
.82	Wood wool. Wood shavings. Sawdust
	—621.798.22; 677.195
.83	Processing of cork. Cork stoppers (bottle corks). Cork in sheets, blocks etc. Cork crumbs
.84	Synthetic cork. Cork substitute
.87	Processing of conifer needles (e.g. into needle wool)
	—677.195
.88	Processing of peat (except as fuel and for textile industry). Peat mould, mull (horticultural peat). Peat litter. Peat bales
	—631.831; 631.878
	For peat as fuel and for spinning —
	662.64, 677.194
675	LEATHER INDUSTRY (INCLUDING FUR AND IMITATION LEATHER)
	—637.61; 685; 686.1; 687; 745.53
	Special auxiliary subdivisions
	Not applicable at 675.92
675.014	Chemical composition, properties and analysis (of hides, skins, leather, fur)
.2	Hide substances (e.g. proteins, collagen)
.4	Tanning substances. Tannin
.6	Fibre basis, properties and determination
.015	Structure of hides, skins, leathers, fur and their constituent collagen (protein) fibres
.2	Macrostructure of hides, skins, leather, fur.
.4	Epidermis. Corium (derma). Flesh. Hair
.6	Chemical structure, properties, composition of collagen (protein) fibres
.016	Molecular and microstructural properties of collagen (protein) fibres
.017	Properties and investigation of finishes and auxiliary materials in leathers and fur
.1	Physical and mechanical properties of leather, their determination and testing
.4	Topography of leather (side, rump etc.)
.5	Strength of leather. Resistance to mechanical influences
.6	Optical, thermal, electrical and other properties
.8	Properties with respect to fluids (resistance, permeability etc.)
.019	Serviceability. Properties affecting use, suitability (e.g. thickness, depth of pile, elasticity, texture)
.02	Defects, faults, damage (In raw and finished leather and fur), their detection and remedy
	Working and production methods, processes and treatment of leather and fur

675.023	Treatment of raw skins and fur (before tanning)	675.044	Processed animal and vegetable fats. Oxidized fats. Degras. Sulphonated, saponified and polymerized fats and oils. Fatty acids —665.228; 665.382/383	
.1	Preliminary treatment. Flaying. Curing. Sterilization. Sorting			
.2	Washing. Soaking. Degreasing. Oil removal			
.32	Liming	.045	Oils. Fats. Greases. Leather oils (mixtures of fats and oils)	
.33	Hair removal (depilation). Unhairing. Chemical loosening of hair. Sweating, scalding etc.	.2	Mineral oils —665.7	ral
.34	Fleshing	.3	Animal and vegetable fats and oils —665.2/3	
.36	Scudding	.4	Synthetic oils and greases —665.381	try
.5	Deliming	.046	Finishing materials. Colorants. Waxes. Coating materials —667.772	tricts
.6	Bating	.1	Colorants. Pigments. Dyes. Bleaching agents	
.7	Pickling. Salting. Drenching	.3	Waxes	
.024	Tanning and tawing processes	.8	Enamel and other coatings. Varnish, lacquer etc.	ic
.3	Vegetable tanning	.05	Machines and equipment for hide and skin processing, for leather and fur production	ship
.4	Mineral tanning. Tanning with organic and synthetic substances. Oil tanning	.052	Equipment for production of tanning agents	
.43	Chrome tanning	.053	Equipment for treatment of raw skins and fur (before tanning)	al of
.46	Tanning with alums, with silicon, with zirconium, with titanium compounds	.1	Equipment for preliminary treatment and processing. Flaying equipment. Curing equipment. Sterilization equipment. Sorting equipment	
.47	Tanning with organic and synthetic substances (e.g. formaldehyde tanning)	.2	Washing equipment. Soaking equipment. Steeping and drumming equipment. Vats, paddles, drums etc.	ical
.48	Oil tanning	.3	Equipment for hair removal (depilation). Unhairing machines. Fleshing equipment. Scudding equipment	
.5	Electrical tanning	.4	Equipment for cutting hair on hides, skins, raw fur	its
.6	Partial tanning. Tanning of different sides by different processes	.054	Tanning and tawing equipment	
.7	Mixed, combined tanning methods	.3	Tanning pits. Layers. Handlers	
.025	Mechanical treatment and processing of skins, leather and fur (especially after tanning) 675.025 ≈ 675.055	.5	Electrical tanning equipment	
.026	Finishing of skins, leather, fur	.055	Machines and equipment for mechanical treatment of skins, leather and fur (especially after tanning)	o
.1	Dyeing. Staining (including preparation for dyeing) —667.772	.1	Equipment for general and preliminary treatment. Samming machines. Shaving machines etc.	
.2	Impregnation. Filling. Currying. Stuffing. Oiling. Drying. Conditioning	.2	Equipment for improving the body texture	
.23	Currying. Stuffing. Oiling. Grossing	.22	Setting-out machines	
.26	Drying. Airing off	.24	Staking machines. Stakers	
.27	Conditioning	.26	Rollers	F
.3	Coating. Waxing. Grain finishing. Colour finishing. Final finishing	.27	Kicking equipment. Beating machines	
.4	Cutting out	.3	Equipment for improving the surface	
.028	Special processes or treatments (other than those above). Lustring. Finishing of hair pile. Finishing of linings	.34	Smoothing machines for furs. Ironing equipment. Embossing equipment	
.03	Raw skins, hides and pelts according to origin —636/639; 675.06	.35	Buffing machines	),
.031	Skins and hides of domestic animals (and allied wild species)	.36	Glazing machines. Brushing machines	
.1	Hides of oxen. Cattle hide. Cowhide. Calfskin	.5	Equipment for splitting. Measuring and marking machines	
.2	Hides of sheep. Sheepskin	.6	Equipment for cutting, clicking. Perforating machines. Punches	
.3	Hides of goats. Goatskin	.056	Equipment for finishing of skins, leather, fur	
.4	Hides of swine. Pigskin	.1	Dyeing equipment. Vats. Paddles. Drums. Brushes. Stencils etc.	
.5	Hides of equines. Horse hide. Donkey or ass hide etc.	.2	Impregnation equipment. Filling equipment. Currying equipment. Oiling equipment. Drying equipment. Conditioning equipment	ld
.6	Hides of camels	.3	Coating equipment. Waxing equipment. Final finishing equipment	
.8	Hides of small domestic animals (and allied wild species). Hare skins. Rabbit skins. Cat skins. Skins of dog, dingo etc.	.5	Pilers	e
.032	Hides of large wild mammals. Tiger skins. Bear skins. Elephant skins. Others	.058	Equipment for special processes or treatments (other than those given above). Lustring equipment. Finishing equipment for hair pile, for linings	
.033	Hides of small wild mammals. Skins of mink, of fox. Skin of stoat or ermine. Others	.059	Packaging equipment. Machines for packing leather in kips —621.798	
.034	Reptile skins. Crocodile skins. Snakeskin	.06	Finished leathers and furs according to origin. Their applications 675.06 ≈ 675.03	
.035	Fish skins. Skins of marine mammals. Sharkskin. Skins of whales, dolphins etc.			
.036	Sealskin. Others			
.04	Bird skins. Skins of fowl			
.041	Tanning and auxiliary materials used in leather and fur production			
	Natural vegetable tanning agents (leaves, bark, wood, roots) —633.87; 675.014.4			
.042	Mineral and synthetic tanning agents —661.734.2			
.043	Chemical auxiliaries			

675.07	Skins, leathers and furs with special characteristics	675.84	Feather waste industry —637.63
.072	Soft, pliable leather	.85	Industries using soft-tissue wastes (offal, entrails). Blood, gut, fat etc. —637.661/.663
.073	Hard, rigid leather	.86	Industries using hard-tissue wastes (skeletal wastes). Bones. Teeth, tusks etc. Ivory. Horns. Whalebone (baleen). Oyster shells. Tortoiseshell (shell of marine turtles). Fish scales —637.61'848; 637.64/.65; 679.82; 688.1
.074	Strong, hard-wearing leather		
.075	Leathers with special physical properties (optical, thermal, electrical and other properties)	.87	Other industries based on leather and fur production wastes. Skin and fur pieces. Tanning wastes. Spent lime. Lime slab. Waste waters. Spent liquors
.076	Leathers with special protective properties against fluids (e.g. waterproof leather)		
.08	Wastes from leather and fur production (including slaughter and tannery wastes) —675.8		
.088	Tanning wastes. Liming wastes. Other processing wastes (e.g. bark, extracts, spent tan liquor, lime slab, spent salt)		
Principal divisions		675.92 IMITATION LEATHER INDUSTRY	
675.1	Leather and leatherware generally.	Special auxiliary subdivisions	
	Special-purpose leathers	675.92.02	Manufacturing processes and operations
.11	Technical and engineering leathers generally. Belting leather. Packing leather. Leather for machine components. Others	.022	Material or stock preparation. Comminution, shredding, milling. Screening. Batching or metering. Plasticization
.12	Saddle leather. Harness leather. Leather for human accoutrements. Belt and strap leather. Orthopaedic leather. Leather for protective wear —614.89; 615.477.1; 685.1/.2; 685.314.47; 687.1/.4	.023.2	Mixing and blending
.14	Footwear leather. Boot and shoe leathers —685.3	.4	Preparation of impregnating and cementing compounds. Preparation of grounds (surface-strengtheners) etc.
.15	Garment leathers. Gloving leathers. Headwear, millinery leathers. Lining leathers. Smallwear leathers —675.18; 687.1/.4	.5	Base preparation
.16	Leather for travel and sports equipment. Leather for floor and wall coverings. Leather for upholstery and household use —684.73; 685.5/.8	.024	Heating. Drying. Wetting
.18	Fancy, ornamental, decorative leathers. Artistic smallware leathers —675.15	.026.2	Impregnation
.2	Leather according to method of production, processing or special finish	.4	Mixing, dilution and cementing
.22	Split leather	.5	Grounding (surface strengthening)
.23	Rawhide. Raw leather	.7	Coating. Deposition of films
.24	Leathers with special tanning. Oil-tanned leathers (e.g. chamois). Mineral-tanned leathers. Chrome-tanned. Alum-tanned. Tawed leather	.8	Gelation
.25	Mechanically treated leathers. Embossed leather. Buff. Perforated, punched leather. Others	.027	Moulding and forming processes
.26	Leather with special finish. Morocco (saffian leather). Suede. Nubuck (unglazed). Parchment. Glazed leather. Others	.2	Calendering
.27	Russia leather. Sandal leather. Similar leathers	3	Sinking. Extruding
.28	Bonded, laminated leather. Multi-ply leather	.4	Stretching. Spinning
6	Fur production and products	.6	Forming by casting and pressing
61	675.6.01/06 Details of fur production Floor and wall pelage. Carpet and rug furs. Hanging furs. Quilting furs. Upholstery furs —645.1/.2; 684.73	.7	Cutting out and stamping of blanks (blanking)
62	Garment furs. Clothing fur. Lining and trimming fur —685.3/.4; 687	.8	Stock concentration, adjustment, dewatering. Collection of fibrous and cementing material
68	Fur for decorative and other minor articles (e.g. artificial flowers, toys, handicrafts)	.028	Curing, vulcanizing, reclaiming. Other chemical processes
.8	Industries based on leather and fur production wastes (including slaughter and carcass by-products). Waste collection, reprocessing, utilization —675.08	.2	Vulcanization
.81	Leather waste industry. Flesh wastes, e.g. glue. Leather shavings, cuttings, dust etc.	.3	Rate and state of vulcanization (heat relations, criteria etc.)
.82	Industries using hair and bristle wastes —687.9	.4	Faults and difficulties in vulcanization or curing (Gas development. Shrinkage spots. Blooming. Scorching. Under-vulcanization. Over-vulcanization)
.83	Wool waste industry —637.62; 677.3	.5	Devulcanization
		.6	Reclaiming processes
		.7	Drying and vulcanization
		029	Finishing processes 675.92.029 ≈ 678.029
		03	Raw materials and semi-finished products (initial and intermediate products)
		.031	Crude latex
		032	Coagulates, e.g. raw natural rubber (block, crêpe, sheet) 675.92.032 ≈ 678.032
		033	Rubber stocks. Moulding compounds
		035	Textiles. Fibres. Non-woven fabrics. Paper. Cellulose. Wastes (e.g. leather industry wastes, shoemaking wastes)
		.04	Additives. Accessory materials 675.92.04 ≈ 678.04
		.049.9	Reinforcing agents. Ageing inhibitors. Blowing agents
		.05	Machines and equipment for imitation leather production
		.052	Equipment for preparation of materials. Comminuting equipment. Screening and batching equipment etc.
		.053	Equipment for preparing and impregnating stocks, grounds etc. Mixers, blenders.
		.054	Cement agitators, kneaders Heating and drying plant. Wetting devices

675.92.056	Equipment for application of impregnating and cementing compounds, of grounds (surface-strengtheners) etc. Dipping tanks (jiggers). Spreaders. Mixing tanks	676.017.6	Physical behaviour towards gases and liquids. Porosity. Permeance (permeability). Sizing properties. Absorption. Adsorption. Swelling in liquids. Cobb test. Bendsten test. Dimensional stability. Shrinking and expansion	
.057	Moulding and extruding equipment, presses etc.			
.058	Curing and vulcanizing plant. Reclaiming, reactivation plant	.7	Physical and mechanical processing properties. Physical serviceability. Printability. Runnability. Foldability. Erasability. Sealability. Varnishability. Washability. Filterability. Others	al
.06	Finished products of imitation leather 675.92.06 ≈ 678.06			
Principal divisions				
675.922	Rubber-type imitation leather	.8	Chemical processing properties. Chemical serviceability (e.g. acetylation ability, nitration ability, chemical aggressivity, toxicity)	try
.923	Cardboard-type imitation leather			
.924	Plastic leather		Faults. Defects. Degradation	tricts
.925	Imitation leather with non-woven backing	.019	Surface defects. Visible faults, flaws 676.019.1 ≈ 620.191	
.926	Imitation leather with woven backing	.1	Internal defects. Internal faults, flaws	
.927	Imitation leather with paper backing	.2	Damage caused by various agents.	
.928	Plastics-type imitation leather (e.g. for shoes, clothing, haberdashery)	.3	Resistance to attack 676.019.3 ≈ 620.193	ic
676	PULP, PAPER AND BOARD INDUSTRY			
Special auxiliary subdivisions		.02	Manufacturing processes	ship
676.01	Generalities on pulp and paper production. Properties and testing	.021	Handling, pretreatment, conservation of fibrous raw materials Applicable only to 676.1	al
.011	Process design. Development of processes. Flow charts. Theory etc.	.2	Receipt at mill. Handling and storage in mill area	of
.012	Process supervision. Consumption. Throughput. Yield	.3	Preparatory treatments	
.2	Consumption of raw and auxiliary materials	.32	Reduction to processing size (e.g. splitting, sawing etc. of wood)	
.3	Heat consumption. Energy consumption	.33	Preliminary moistening, soaking, steaming	
.4	Capacity. Throughput	.34	Sorting. Cleaning. Removal of unwanted parts. Barking	rcal
.5	Yield			
.013	Mill, plant, installations (generally). Design, construction, power source of mills	.36	Comminution. Chipping. Shredding. Crushing	
.014	Chemical constitution, composition (of pulps, paper etc.)	.38	Finishing of chips, shreds etc. (e.g. cleaning, drying)	its
.2	Inorganic constituents (not additives) (e.g. water, ash, nitrogen, sulphur content)	.8	Handling of materials. Conveyance to place of pre-processing, storage, use. Storage	
.3	Organic constituents. Carboxyl and carbonyl content. Monosaccharides. Polysaccharides. Others	.022	Pulping processes	
.36	Reaction. Solubility. Chemical constants. Odour. Taste. Bleachability. Acidity. Alkalinity etc. —541.132.3; 543.92; 66-915	.2	Preliminary treatment (before grinder, digester etc.)	
		.3	Charging of pulping equipment. Feeding, packing etc.	
.4	Additives etc. Loadings. Pigments. Coatings. Size. Softening agents. Impregnating agents. Others	.4	Mechanical pulping (in grinders, defibrators etc.)	
.8	Molecular, structural and morphological properties. Degree of polymerization. Viscosity. Micellar and intermicellar structure. Others	.43	Grinding of logs	
		.44	Defibration of chips	
.017	Physical and mechanical properties and their testing. Processing properties. Serviceability etc.	.48	Various mechanical pulping processes.	
.2	General physical and mechanical properties and constants. Dimensions (e.g. surface area). Weight, substance (grammage). Structure (e.g. fibre orientation, grain. Capillary structure). Surface properties (e.g. two-sidedness)	.6	Pulping by explosion, rotating brushes, ultrasonics. Hammermilling	
.3	Drainage properties. Fibre fractionation. Shive content. Zero-fibre content. Schopper-Riegler number. Freeness value	.61	Chemical pulping. Other pulping methods	
.4	Strength properties	.62	Pretreatment in digester. Prehydrolysis.	
.42	Strength properties of the material as a whole (e.g. resistance to tension, flexion, shear, folding, winding. Breaking strength)		Impregnation. Diffusion. Evacuation	
.43	Strength properties of specific regions. Bonding strength. Resistance to picking, peel-off	.023.1	Digesting and cooking. Factors influencing digestion. Circulation of liquor, of steam. Volume of liquor. Ratio of chips to liquor. Temperature, time etc.	
.44	Strength properties under various conditions (e.g. wet strength)	.024	Bleaching. Bleaching process. Bleaching temperature, time etc.	
.5	Acoustic, optical, thermal, electrical and magnetic properties (e.g. opacity, combustibility)	.1	Mechanical aftertreatment. Handling of pulp slurries. Paper and board stock preparation	
		.2	Handling of slurry stock. Flow systems.	
		.3	Pumping. Thickening. Dewatering. Diluting	
		.4	Washing. Washing in digester	d
		.5	Fibre dispersion (before washing, screening etc.). Dispersion of waste paper	
		.6	Separation of dirt. Screening and cleaning.	
		.7	Despecking. Fractionation	
		.72	Disintegration of pulp sheets, waste paper, broke and trim etc. Soaking. Defibration	
		.73	Beating and refining	
		.74	Chemical treatment of stock. Addition of non-fibrous additives and constituents.	
			Dyeing. Filling. Sizing	
			Colouring. Dyeing (in stock). Optical bleaching —667.2	
			Loading. Filling	
			Sizing (in stock and wet end)	

676.024.76	Addition of additives for improving paper properties (Absorbency. Softness. Opacity. Whiteness. Preservation, keeping properties. Others)	676.034.4	Fibres from bast and bark. Kozo (mulberry tree). Mitsumata. Gampi
.78	Addition of additives for combating manufacturing problems. For improving dewatering, drainage. For prevention of slime, foam (froth). Others	.5	Leaf fibres. Sisal. Manila hemp. New Zealand flax. Tobacco
.82	De-aeration	.6	Fibres from seeds. Linters
.026	Production of pulp, paper and board	.035	Organic synthetic and regenerated fibres
.1	Flow and flow systems in approach flow and wet end. Flow spreading, distribution, concentration etc. Flow in stuff box, machine chest etc.	.036	Inorganic fibres
.2	Formation and drainage on the wire. Fibre orientation. Influence of shake. Fibre bonding. Influence of suction	.038	Wastes and secondary fibres
.22	Papermaking by hand. Watermarking —676.026.4; 676.026.74	.2	Waste paper. Waste board. Broke and trim
.23	Papermaking on fourdrinier machines	.3	Rags and textile waste (including wool and silk)
.24	Papermaking on cylinder machines (vat machines)	.4	Wood waste. Sawdust, slabbing chips etc.
.25	Papermaking on combined machines (Yankee MG combined. Cylinder combined)	.04	Non-fibrous raw materials and additives.
.26	Papermaking on other machines for wet processes. On machines for non-wovens by wet process	.041	Processing agents. Process water
.27	Papermaking by dry processes (air felting)	.042	<i>Details of materials by :54, :55, :66, :67</i>
.3	Sheet transfer and draw	.043	Accessory materials and additives for pretreatment of fibrous raw material
.4	Pressing and water removal in the presses. Molette watermarking —676.026.22; 676.026.74	.044	Pulping chemicals and additives (e.g. sodium hydroxide, sodium sulphite, calcium bisulphite, limestone)
.5	Drying. Removal of vapour and condensates. Cooling	.046	Bleaching agents (e.g. chlorine compounds, calcium hypochlorite)
.52	Transfer of water from sheet to air	.05	Additives used in mechanical aftertreatment, in stock preparation etc. Agents for washing, drying, filling, sizing (e.g. kaolin for filling).
.53	Removal of moisture from the felts. Bottom-felt drying systems	.051	Agents for improving paper properties. For prevention of foam (froth)
.54	Removal of condensate from the cylinders. Removal of moist air from machine room. Heating and ventilating. Cooling	.2	Additives to promote dewatering, drainage on the wire. Agents for improving paper surface. For surface sizing. For coating, waxing, varnishing, lacquering. For impregnation. For lamination (e.g. starch for board lamination)
.7	Sheet treatment, on and off machine	.3	Machinery and equipment for production of pulp, paper and board
.71	Smoothing. Calendering	.32	<i>676.05 is roughly parallel with 676.02</i>
.72	Surface improvement and other protective treatments —667.6/.7	.33	Machinery and equipment for handling, pretreatment and storage of raw materials (pulpwood, vegetable fibres etc.)
.721	Surface colouring	.34	Machinery and equipment for receipt at mill, for handling and storage in mill area
.722	Sizing	.36	Machinery and equipment for preparatory treatment
.723	Coating. Surface protection	.38	For reduction to processing size (splitters, saws etc.)
.724	Internal protection. Impregnation. Saturation. Parchmentation. Vulcanizing	.8	For moistening, soaking, steaming
.73	Laminating of paper and board layers. Laminating of paper and board with films, foils. Adhesive and hot-melt methods. Heat-and-pressure bonding	.052	For sorting, cleaning, barking. Washing drums for wood. Rag thrashers, willows
.74	Patterning. Embossing. Imitation watermarks. Graining. Marbling. Application of abrasive surface. Application of flock, velour —676.026.22; 676.026.4; 777.6	.1	For comminution. Chippers. Shredders. Crushers
.75	Elasticizing of paper. Making extensible, stretchable. Crêping etc.	.2	For screening, cleaning, drying of chips, rags, cut straw etc. Chip screens. Cleaners, dusters. Driers. Presses
.76	Compressing, consolidating (e.g. consolidation of fibreboard)	.3	Machinery and equipment for handling of materials. For conveyance to place of storage, use etc. Conveyors, elevators etc.
.77	Conditioning and damping. Maturing	.4	Storage bins, silos etc.
.028	Finishing. Aftertreatment	.053.1	Machinery and equipment for pulping processes
.2	Unwinding and rewinding. Splicing and web joining	.054.1	For preparation of liquor, cooking etc. (e.g. filters)
.3	Slitting the roll. Rewinding	.2	For preliminary treatment (before grinding, digesting etc.). Steaming vessels. Pressure chambers
.4	Handling of sheets. Cutting. Trimming. Counting. Sorting. Folding	.3	For charging of grinders, digesters etc. Chip packers. Chip distributors etc.
.6	Wrapping and packing of rolls, sheets etc. —621.798	.4	For mechanical pulping. Grinders, defibrators etc. Hammer mills
.8	Stacking, storage and handling prior to dispatch	.6	Digesters
.03	Fibrous raw materials	.053.1	For bleaching of pulp. Bleach hollanders, towers etc.
.031	Hardwood. Deciduous, broadleaf wood 676.031.1/.3 ≈ 674.031.1/.3	.054.1	For mechanical aftertreatment. For handling of pulp slurries, stock suspensions. Thickeners etc.
.032	Softwood. Conifer wood	.2	For washing of pulp. Washing drums. Wash filters. Diffusers. Vacuum filters
.034	Vegetable fibres other than wood	.3	For fibre dispersion (before washing, screening etc.)
.2	Grass, straw etc. Esparto. Alfa. Flax. Hemp. Jute. Sugar cane (bagasse). Bamboo. Reeds	.4	For separation of dirt. For screening and cleaning. For despecking. For fractionation. Knotters. Sandtraps. Others

676.054.5	Disintegrators and breakers for pulp sheets, waste paper, broke and trim etc. Pulpers. Hydrapulpers. Kollergangs. Defibrators	676.065.5	Uncoloured products (not dyed or surface-coloured)
.65	Beaters. Hollanders. Rod mills	.6	Coloured products (dyed etc.)
.66	Refiners. Curlators	.067	Products according to sheet-treatment characteristics
.72	For preparation and addition of dyeing solutions	.1	According to finish (e.g. calendered, glazed)
.73	For preparation and addition of loadings, fillers	.2	According to surface improvement, protection (e.g. sized, coated)
.74	For preparation and addition of size (in stock)	.4	According to ruling (e.g. ruled, graph-marked). According to watermarking
.82	De-aerators	.08	Recovery of waste liquor. Regeneration of chemicals. Disposal of wastes. By-products. Treatment of effluent
.056	Machinery and equipment for sheet-making. Paper machines. Board machines	.082	Waste liquors and their use (untreated). Recovery of pulping and bleaching chemicals. Regeneration. Composition. Green liquor. White liquor
.1	For the approach flow. Stuff boxes, machine chests etc.	.083	By-products of pulping, obtained by fermentation processes. Alcohols. Organic acids. Others
.22	For papermaking by hand. Moulds, deckles etc.	.084	Lignosulphonic acids. Lignosulphonates. Degradation products of lignosulphonic acids
.23	Fourdrinier machines	.085	Tall oil. Tall oil skimmings. Products from digester gas relief —665.947.3
.24	Cylinder machines (vat machines)		Principal divisions
.25	Combined machines	676.1	Pulps
.26	Other machines for wet processes	.15	—661.728
.27	For dry processes. For air felting etc.	.153	Mechanical pulps. Woodpulp
.3	For forming of sheet. For couch. For sheet transfer and draw	.154	Groundwood pulps
.31	Forming board. Suction boxes. Shaking equipment, for fibre orientation	.16	Mechanical pulp from chips
.32	Couch rolls. Suction couch rolls. Dandy rolls. Watermark rolls. Transfer rolls	.163	Chemical pulps. Semi-chemical pulps. Other not purely mechanical pulps
.34	Pick-ups. Lick-ups	.164	Sulphite pulps
.38	Apparatus for lamination of sheets, plies		Pulps prepared by alkaline processes.
.4	For pressing and water removal in the presses. For Molette watermarking	.2	Sulphate pulps. Kraft pulp. Soda, lime and other alkaline pulps
.45	Wires for paper machines and board machines	.22	Papers and boards
.46	Felts for paper machines and board machines	.222	Printing papers and boards
.47	Equipment for leading, guiding the paper web. Dancing roll etc.	.223	—686.8
.5	Drying devices. Driers	.224	Newsprint
.7	For sheet treatment, on and off machine	.1	Book and magazine papers
.71	For smoothing. Calenders, rolls, presses for finishing	.2	Special printing papers
.72	For surface improvement and protective treatment with chemicals (e.g. for surface colouring, sizing, coating)	.3	Featherweight paper. India paper. Bible paper
.73	Laminators. Hot presses etc.	.4	Cheque paper (safety paper). Banknote paper. Postage- stamp paper
.74	For patterning. Embossing, marbling devices etc.	.5	Map paper
.752	Créping machines etc.	.9	Music-printing paper
.058	Machinery and equipment for roll finishing. For cutting, trimming, wrapping, packing etc.	.226	Label-printing paper
.1	Unwinders. Rewinders. Splicers. Roll changers	.227	Other special printing papers. Luxury printing paper etc.
.2	Slitters	.23	Coated printing papers
.3	Cutters. Trimmers. Counting devices. Sorters. Folding devices	.232	Printing board. Ivory board. Bristol board. Carte-de-visite board (visiting-card board) etc.
.6	Machinery for wrapping and packing of rolls, sheets etc. (e.g. balers)	.233	Writing paper. Drawing paper and board etc. —686.8
.8	Apparatus for stacking, storing etc.	.234	Writing paper. Draft paper. Copy paper. Notepaper. Bond paper etc.
.06	Products according to specific characteristics, properties	.236	Ledger paper. Account-book paper etc.
.064	Products according to principal physical and chemical characteristics. According to composition	.237	Typing paper. Air-mail paper etc.
	<i>676.064.1/.2 should be used only when the relevant main number does not distinguish between paper and board, e.g. 676.237.064.2 Drawing board</i>	.24	Stamped paper
.1	Paper	.242	Drawing paper and board. Watercolour paper. Crayon paper
.2	Board	.244	Greaseproof, packaging and wrapping paper —621.798.15
.4	Wood-free products	.25	Glassine. Transparent paper. Tracing paper. Greaseproof paper. Pergamyn. Butter paper
.5	Wood-containing products	.252	Sack paper. Bag paper. Wrapping paper. Liners
.7	Single-ply, single-layer products	.2	Sanitary paper. Papers for various industrial and other uses
.8	Two-ply, double-layer products. Multi-ply, multi-layer products —676.264	.32	Sanitary paper. Absorbent paper
.065	Products according to bleach and colour properties	.33	Towelling paper. Toilet tissue (lavatory paper). Napkin paper. Face tissues. Cellulose wadding
.1	Unbleached products		Blotting paper and board —686.851
.2	Bleached products		Filter paper and board

676.254	Paper for electrical purposes. Insulating paper. Cable paper. Condenser paper	676.81.057	Machines for cutting of fringes and trimming of edges and borders
.255	Cigarette paper. Other paper for the tobacco industry	.058	Equipment for application of adhesive. Gumming and gluing machines
.256	Base paper for various purposes. For light-sensitive, photosensitive paper. For carbon paper. Others	Principal divisions	
.258	Papers for other industrial uses. Indicator papers for chemical reactions (e.g. litmus paper). Textile substitutes. Spinning papers. Non-wovens. Others	676.811	Adhesive labels. Tie-on labels
.26	Coated paper. Laminated paper. Wet-strength paper. Impregnated paper. Decorative paper	.813	Common types of cut card, visiting cards etc. Postcards. Picture postcards
.262	Coated paper and board (generally). Chromo paper. Art paper. Photographic paper (light-sensitive, photosensitive paper). Heliographic paper	.814	Playing cards
.263.2	Coated copy paper. Computer paper	.815	Cards for punching. Punched cards
.3	Carbon and other copying papers. Carbon paper (with pigment coating). Carbon-impregnated paper ('carbonless' copying paper)	.2	Punched cards for manual information retrieval. Edge-punched, slotted cards etc. Optical coincidence cards —686.846
.4	Transfer paper. Decalcomania paper —667.649.2; 667.661.5	.4	Punched cards for the control of machines (e.g. accounting machines, textile machines) —677.054.87; 681.327.45
.5	Adhesive and other sticking papers. Label and poster papers etc. Gummed paper. Pressure-sensitive adhesive paper. Others	.816	Paper tapes. Paper rolls
6	Adhesion-reducing paper. Release paper	.2	Adhesive paper tapes. Sealing tape
.8	Waxed and paraffin paper and board	.3	Paper rolls for telegraphy (teleprinter tape, ticker tape)
.264	Laminated paper and board (e.g. laminated with metal foil). Papers with two or more plies, layers. Lacquered paper and board —676.064.8; 681.126	.5	Paper rolls for punching. Rolls for punched-tape machines (e.g. tape-typewriters, accounting machines) —681.327.44
.265	Papers coated with powder, flock etc. Abrasive papers (Carborundum paper. Sandpaper. Emery paper. Glass-paper). Flock-paper. Velour paper —621.921.6; 666.189.4; 666.792	.8	Paper streamers —688.756
.266	Wet-strength paper. Impregnated paper etc. Vegetable parchment. Oiled paper. Asphalt, bitumen paper etc.	.817	Lace paper. Imitation lace. Perforated paper
.267	Decorative papers (treated by mechanical means). Patterned paper. Marbled paper. Embossed paper. Crêpe paper. Clupak	.818	Paper and board for forms, tickets, postage stamps, receipts etc.
27	Boards	.82	Objects of paper or thin board, folded and glued
.272	Boxboard. Folding boxboard	.821	Paper bags. Paper sacks —621.798.15
.273	Solid fibre container board. Corrugated board	.822	Envelopes. Letter cards etc.
.274	Corrugating medium. Fluting. Liner board	.823	Document cases
275	Kraft liner board	.824	Containers of folded or pressed paper. Folders
277	Millboard. Chipboard	.825	Lampshades of folded paper
28	Pressboard. Polished board. Presspahn. Moulded products	.828	Folded paper cups
.282	Fibre building board. Hardboard. Wallboard. Roofing and flooring felt —691.14	.83	Objects of paper or thin board, rolled and glued. Tubes. Spools. Reels. Paper cones. Conical lampshades
.283	Hard building board (pressed)	.84	Assembled objects of paper or board in general. Cardboard boxes etc.
.284	Soft building board (not pressed)		
.285	Insulating board	Special auxiliary subdivisions	
.287	Acoustic board	676.84.02	Methods of production 676.84.02 ≈ 676.84.05
8	Roofing felt. Flooring felt	.05	Machinery and equipment
.81	Paper ware. Cardboard industry. Objects made from paper or cardboard	.051	Machines for preparatory processes
Special auxiliary subdivisions		.1	Devices for scribing. For grooving without bending. For indenting. For slotting and notching (without waste). For shearing. For dividing (without waste). For edge cutting. For ruling. For arching, bending, profiling. Combined devices
676.81.02	Methods of production 676.81.02 ≈ 676.81.05	.2	For bending of board for producing grooves and slots. For pressing, crimping
.05	Machinery and equipment	.3	For stamping, punching, perforating. For cutting out, blanking, slotting (with waste) etc.
.052	Stamping machines. Stamping dies. Longitudinal and transverse cutters	.5	For producing complete cut-outs for boxes. Automatic pressing and stamping machines
.053	Perforating machines. Punches, drilling devices etc.	.052	Machines for assembling of board into boxes etc.
.054	Bending machines. Folding machines. Crêping machines. Devices for joining by crimping, serration, perforation	.1	Cardboard-box machines in general. Folding, forming machines. Devices for gumming, gluing (with assembling)
.055	Goffering machines. Pleating machines (e.g. for production of lampshades and paper garlands)	.2	Machines for producing boxes with drawers, trays. Matchbox machines etc.
.056	Machines for forming, pressing, embossing	.3	Embossing and stamping presses for boxes
		.053	Machines for assembling with metal fasteners (with rivets, staples etc.)
		.054	Machines for applying glue (e.g. for coverings, linings, edge and corner pieces)
		Principal divisions	
		676.85	Objects made from paper and board in sheets, stamped and moulded. Stamped bottle caps, covers etc. Stamped boxes, cases

676.86	Objects moulded from paper pulp	677.016.47	Colour-fastness and its determination	
.861	Objects of lacquered board. Boxes, caskets, furniture	.6	Examination of finishing effects	
		.8	Examination of dyestuffs and textile auxiliaries	
.863	Figures, stucco, ornaments of paper pulp		Physical, mechanical and processing properties. Serviceability of textile materials. Testing of these properties	
.867	Dished, concave objects. Plates, dishes etc. of paper pulp	.017	Dimensions, weight, their ratios	3f
.868	Various hollow objects. Containers, beakers, bottles of paper pulp. Buckets, pails of paper pulp. Tubular objects of paper pulp. Spools, cigar holders etc.	.2	Arrangement and number of fibres or single filaments in rovings, slivers, yarns etc.	
		.3	Arrangement and number of fibres or yarns in sheet textiles. Fibre distribution.	
.872	Articles of vulcanized fibre		Smoothness. Twist. Fabric structure. Warp and weft. Structure of knitted goods, nets, felts, etc.	ry
677	TEXTILE INDUSTRY			
	—687			
Special auxiliary subdivisions				
677-2/-8	Details of textile machinery	.4	Behaviour towards mechanical stresses.	
	677-2/-8 $\approx$ 62-2/-8 except that -48 is listed here	.5	Strength. Elongation. Elasticity	
			Acoustic, optical, thermal, electrical properties	
-48	Forms and shapes of textile materials	.6	Physical behaviour towards gases, liquids, solids. Behaviour towards radiation other than light. Permeability (to air, water etc.). Wettability. Repellent properties. Shrinkage	c
-485	Spinning solution		Processing properties and their testing.	ship
-486	Forms and shapes of fibres and filaments		Processability	
.1	Short natural fibres or cut staple (also staple fibre)	.7	Serviceability and its testing. Wear properties. Creasing properties. Soiling properties (dirt resistance etc.). Comfort etc.	
.2	Continuous filaments	.8	Defects, faults, damage in textile materials, their detection and correction	
.3	Profiled and hollow fibrous materials		Visible faults, flaws. Fluffs, snarls, irregularities. Discolorations, impurities etc.	cal
.4	Forms of fibrous material (straight, stretched, crimped, curled)	.019	677.019.1 $\approx$ 620.191	
.5	Fibrous materials in flock form		Internal defects (e.g. organoleptic defects, smell etc.)	
.6	Fibrous materials in fleece form. Web		677.019.2 $\approx$ 620.192	
.7	Fibrous materials in sliver form	.1	Defects, faults, damage according to cause	ts
-487	Forms and shapes of yarns	.2	677.019.3 $\approx$ 620.193	
.1	Monofilament	.3	Detection of defects, faults, damage	
.2	Multifilament	.5	Correction or curing of defects, faults, damage	
.5	Forms of yarn package	.7		
.51	Loose (rolls, hanks, cakes)			
.52	Formed on tubes, beams etc.			
-488	Forms of fabric, including film			
-489	Blends of fibres			
-9	Process and plant operating characteristics			
	677-9 $\approx$ 66-9			
677.01	GENERALITIES ON THE TEXTILE INDUSTRY. PROPERTIES, FAULTS AND TESTING OF TEXTILE MATERIALS. EXAMINATION OF DYESTUFFS, TEXTILE AUXILIARIES AND FINISHING EFFECTS	677.02	PROCESSES OF THE TEXTILE INDUSTRY	
		.021.1	Manufacture of man-made filaments and fibres. Methods for production and extraction of natural fibres and of preparing fibres for spinning	
.011	Operating and process planning and other general questions (including statistical methods in testing, specifications, standards etc.)	.12	Manufacture of man-made filaments and fibres	
.014	Chemical composition of fibrous materials. Chemical properties and their testing (including fibre analysis). Molecular and structural properties and their testing	.122	Treatment of raw materials prior to dissolution or melting	
.2	Chemical composition and properties determined by chemical test methods. Molecular weight. Ash content. Inorganic materials content. Resistance to chemicals	.2	Treatment of naturally occurring materials (e.g. cellulose derivatives, proteins)	
.3	Chemical composition and properties determined by physical test methods. Liquid, moisture content	.4	Treatment of liquid raw materials. Mixing, blending. Filtering etc.	
.5	Identification and differentiation of fibrous materials. Qualitative fibre analysis	.6	Treatment of solid synthetic polymers. Grinding, extracting etc.	
.6	Quantitative fibre analysis	.123	Forming of spinning solution or melt. Its treatment prior to extrusion	
.7	Determination of special fibre properties (e.g. maturity of cotton)	.1	Dissolving. Melting	
.8	Molecular and structural properties of fibrous materials and their testing	.2	Ripening of spinning solution.	
.016	Examination of finished textiles with regard to results of treatment. Examination of dyestuffs and textile auxiliaries	.3	Afterpolymerization	
.1	Examination of textile finishing processes in general	.4	Purification of spinning solution. Filtering	
.2	Examination of preparatory treatments (their effects). Effects of cleaning, bleaching etc.	.6	Homogenization and de-aeration of spinning solution	
.4	Examination of dyeing and printing processes (their effects)	.8	Inclusion of additives in the spinning solution (for influencing spinning properties, thread properties). Modifiers. Doping agents	
.41	Colour determination and measurement	.125	Storage and transport of spinning solution	
.42	Determination of type of dyestuff	.1	Extrusion. Subsequent treatment of extruded fibres	
	—667.2	.2	Feeding of spinning solution, liquid or chips to the spinning machine	
		.26	Spinning. Extrusion	
		.27	—678.027.3/4	
		.28	Solution spinning	
		.3	Melt spinning	
		.4	Reaction spinning	
			Drawing. Draw twisting	
			Aftertwisting	

677.021.125.5	Aftertreatment (e.g. washing, sizing, crimping)	677.026.22	Production of waddings
.7	Drying	.24	Production of fulled felts
.8	Cutting	.3	Production of needle felts
.127	Manufacture of man-made fibres from film (e.g. split fibre method)	.4	Production of non-wovens
.128	Collecting of filaments and fibres	.42	Production of fibre fleeces
.15	Production and extraction of natural fibres	.44	Strengthening, reinforcing processes
.151.2	Production of fibres from stems	.45	Production of sew-knit
.22	Rippling (deseeding). Bundling	.5	Production of lace
.23	Retting (soaking, softening)	.52	Production of hand-made lace
.25	Decorticating. Breaking. Scutching	—746.21	
.27	Recovery of fibres from waste	.56	Production of machine-made lace
.28	Cottonizing. Degumming	.6	Production of embroidery
.5	Production of fibres from leaves	.62	Production of hand-made embroidery
.7	Production of fibres from fruits	—746.3	
.152	Production of fibres from seeds. Ginning	.66	Production of machine-made embroidery
.153	Production of wools, hairs and silks.	.73	Production of knotted fabrics, fringes
	Soaking, boiling, reeling of cocoons	—746.25	
	—637.62; 638.27	.75	Production of braidings
.154	Production and extraction of mineral fibres	.77	Production of trimmings
.156	Scouring, washing, chemical cleaning of fibres	.027	Textile dyeing, printing and finishing
.157	Carbonizing of fibres	—667	
	—677.027.232	.1	Methods and processes for all stages of dyeing and finishing
.158	Oiling, batching, brightening of fibres	.11	Control measures in general. Measuring and weighing. Stain removal
.16	Cutting. Breaking. Opening. Cleaning.	.12	Wetting. Steeping
	Blending	.13	Rinsing. Washing-off
.17	Carding	.15	Acidifying
.18	Hackling. Combing. Backwashing. Drawing	.16	Hydroextraction. Drying
.022	Methods of spinning, twisting, cabling, texturing	.18	Heat treatment. Steaming
.2	Preparatory spinning. Flyer spinning (manufacture of rovings)	.2	Preparation processes. Preparatory operations
.3/.5	Spinning	.21	Preparation. Grey cloth control. Elimination of faults. Sewing together of pieces
.3	Ring spinning	—658.562	
.32	Woollen spinning. Condenser spinning	.231	Singeing of textiles
.33	Cotton and worsted spinning	—677.023.292.92	
.35	Bast fibre spinning	.232	Carbonizing of textiles
.36	Direct spinning of man-made fibres (tow-to-yarn)	—677.021.157	
.43	Can spinning. Pot spinning. Centrifugal spinning	.233	Discharging
.45	Flyer spinning. Cap spinning	.25	Cleaning (only as pretreatment for textile finishing)
.47	Gill spinning	.251	Mechanical cleaning (brushing, beating etc.)
.48	Open-end spinning	.252	Solvent cleaning. Dry cleaning
.5	Mule spinning	.253	Wet cleaning. Washing
.6	Twisting. Cabling	.254.1	Desizing
.68	Cabling	.2	Degumming of silk
.78	Manufacture of textured yarns (e.g. gear crimping, extrusion texturing)	.3	Degreasing
.9	Details of spinning, twisting, cabling, texturing	.255	Kiering. Lime boiling
.023	Winding, reeling, balling, warping, sizing, beaming etc. of yarns	.26	Bleaching (chemical bleaching)
.23	Winding of yarns	.261	Grass bleaching. Crofting
.27	Reeling, balling etc. of yarns. Assembly winding	.262	Oxygen bleaching (e.g. bleaching with ozone, with peroxides)
.28	Making-up of yarns	.264	Bleaching with chlorine or chlorine compounds (e.g. hypochlorite bleaching)
.292.5	Cleaning of yarns	.265	Bleaching with sulphur compounds
.92	Treatment of yarns (e.g. waxing, lubricating, singeing)	.268	Combined methods of chemical bleaching
	—677.027.231	.27	Blueing. Fluorescent brightening (optical bleaching, whitening)
.73	Sectional warping of yarns	.28	Combined optical and chemical bleaching
.74	Beam warping of yarns	.4	Dyeing
.75	Sizing of yarns	—667.2	
.76	Beaming of yarns	.41	Preparatory operations
.77	Preparation of warp for further processing	.411	Preparation of goods for dyeing Mordanting.
.024	Weaving and ancillary processes. Weaving industry		Altering of dye absorption
.83	Shedding	.412	Preparation of dye bath
.025	Knitting processes. Knitting industry	.42	Dyeing methods according to type of dye
.3	Straight-bar knitting		<i>Individual dyes may be denoted by adding the Colour Index number (CI number) from: Colour Index; publisher: Society of Dyers and Colourists, and: American Association of Textile Chemists and Colorists</i>
.4	Flat-bar knitting		<i>(see also BS 1006, clauses 4.1.1/4.1.2 and Table 1)</i>
.52	Sinker-wheel knitting	.421	Dyeing with inorganic dyes (mineral dyes)
.54	Circular knitting, on small-diameter machines		<i>Details by :661.8...</i>
.56	Circular knitting, on large-diameter machines	.422	Dyeing with natural organic dyes
.6	Warp knitting. Tricot knitting		<i>Details by :547.97... or :667.27...</i>
.8	Loop forming	.423	Dyeing with synthetic organic dyes
.026	Processes for production of other textile products		

677.027.423 (cont'd) Details by: 667.28... or by CI number (see 677.027.42)

- .1 With directly absorbed dyes (e.g. basic, acid, substantive dyes)
- .2 With dyes absorbed by mordants
- .3 With indirect dyes absorbed in a reduced condition
- .4 With dyes developed on the fibre
- .5 With dyes combining chemically with the fibre
- .424 Dyeing with dyes fixed by a binding agent
- .425 Dyeing with the aid of non-aqueous solvents
- .44 Dyeing of fibre mixtures. Tone-in-tone dyeing. Multicolour effects, shot effect etc.
- .45 Methods of improving evenness and penetration
- .46 Other dyeing processes. Dyeing for special purposes
- .461 Cross dyeing. Shading. Brightening of colours
- .462 Methods of adjusting differences in the material
- .463 Ombré dyeing. Rainbow dyeing
- .464 Fluorescent dyeing
- .465 Fugitive tinting for marking
- .468 Camouflage dyeing
—623.77
- .47 Aftertreatment of dyeings
- .48 Stripping of dyes
- .5 Textile printing
—655.3.025; 667.526
- .51 Preparatory processes
- .511 Designing
- .512 Apparatus. Production of printing blocks
 - .1 Production of printing blocks
 - .2 Engraving and photochemical treatment of plates
 - .3 Production of screens
 - .5 Production of rollers
 - .6 Preparation of the doctor blade
- .513 Preparation of dyes and auxiliaries (printing pastes, thickeners)
- .514 Preparation of the textile materials
 - .1 Priming with mordants, naphthols, oils, leuco-esters
 - .2 Protective measures against doctor streaks etc.
 - .4 Fastening the cloth to the printing table (by pinning, by gluing)
 - .6 Chlorination of wool before printing
- .52 Printing processes according to the dye used
- .523 Direct printing. Discharge printing. Resist printing
 - .1 With directly absorbed dyes
 - .2 With mordant dyes
 - .3 With indirect dyes absorbed in a reduced condition
 - .4 With dyes developed on the fibre
- .524 Printing with dyes fixed by a binding agent
- .525 Printing with combinations of dyes
- .528 Printing with luminescent and fluorescent dyes
- .53 Printing with substances other than dyes to produce local effects
 - .531 Gloss or matt effects
 - .534 Local discharge effects
 - .535 Resists (resist pastes) against raising
 - .536 Local application of powder, fibre dust etc. on textiles
- .55 Printing processes for silvers and yarns. Vigoureux printing. Yarn printing. Kasuri processes
- .56 Printing processes for woven fabrics, knitted goods and other flat fabrics
 - .561 According to mechanical process
 - .1 Hand printing. Block printing. Screen printing
 - .2 Machine printing. Machine block printing. Perrotine printing. Roller printing (intaglio).
 - .562 Machine screen printing
 - .1 According to colour process
 - .1 Printing-on (direct printing). Slop padding. Tip printing

677.027.562.2

- .3 Resist printing
- .4 Conversion printing
- .6 Photochemical processes
Details by :77...
- .8 Special processes. Lithography. Painting of fabrics. Others
- .566 Embossed printing. Colour embossing. Colouring over embossments. Imitation embroidery
- .57 Aftertreatments for printing (including treatment with metal salts and synthetic resins)
- .571 Developing. Fixing (where not included in printing process)
- .572 Washing-out of surplus dyes, chemicals, thickeners
- .573 Soaping
- .575 Aftertreatment of prints to improve colour fastness
- .58 Printing on non-textile materials
- .6 Finishing (including chemical modification of textile materials)
- .61 Mechanical finishing
- .611 Milling. Fulling
- .612 Crabbing. Blowing. Decatizing
- .613 Raising (nap raising etc.). Shearing. Sueding. Brushing. Beating. Breaking
- .615.1 Calendering. Chasing. Chintzing. Beetling. Rippling. Schreinerling. Moiré finishing (watering). Embossing. Goffering. Crêping
- .2 Pressing. Pleating. Boarding. Setting
- .618 Mechanical shrinking and stretching
- .62 Chemical finishing (including impregnating and modification)
- .622 Alteration of chemical properties (including dyeing properties) of fibres
 - .1 Etherification. Esterification. Saponification
 - .2 Treatment with aldehydes, amides, amines
 - .3 Immunization. Animalization. Philanization
 - .5 Modification by copolymers (graft polymerization)
 - .6 Alteration of swelling capacity of fibres (reducing, increasing)
- .623 Alteration of external properties of textiles
 - .1 Improvement of handle, feel
 - .2 Weighting. Loading. Filling
 - .3 Alteration of volume. Bulking
 - .4 Stiffening
 - .5 Alteration of appearance. Lustring. Delustring. Imparting translucency. Mercerising. Imparting transparency (parchmentizing). Organdie finish. Imparting opalescence. Linenizing. Crêping. Embossing. Other treatments
- .52 Mercerizing
- .7 Alteration of odour, smell
- .625 Alteration of resistance to external influences
 - .1 To physical influences
 - .11 To purely mechanical forces
 - .111 To tension, pressure, shear. Increasing of dry and wet strength. Increasing of sewing strength. Others
 - .112 To bending and folding (crease resistance) Creaseproofing. Improving of crease retention
 - .113 To rubbing, chafing. Increasing of abrasion resistance etc.
 - .12 Alteration of surface tension between liquids and textiles
 - .121 Permeable water-repellent, oil-repellent and dirt-repellent finishes
 - .122 Increasing of absorbency and wetting power
 - .13 Proofing of fabrics. Proofing against gases, e.g. air. Proofing against liquids. Waterproofing. Proofing against solids. Dustproofing. Proofing against radiation, e.g. heat, light, ionizing
 - .14 Protection of the fibrous material itself against radiation of all types

677.027.625.15	Improvement of heat-retaining and cold-retaining properties (alteration of thermal conductivity). Modification of infra-red reflectivity	677.051.123 (cont'd)	677.051.123 $\approx$ 677.021.123
.16	Protection against high temperatures and fire. Improvement of resistance to ironing. Reduction of flammability. Fireproofing	.125	For extrusion. For subsequent treatment of extruded fibres
.17	Protection against electrical effects. Prevention of static charges (antistatic proofing). Alteration of electrical conductivity	.2	Spinning machines
.2	Alteration of resistance to chemical influences	.26	For solution spinning
.3	Alteration of resistance to biological influences	.262	Spinnerets
	<i>Details by :58 and :59</i>	.264	Spinning bath. Steam chamber. Thread guides. Godets. Drawing rollers
.5	Alteration of resistance to combined influences (e.g. climate, wear, ageing, soiling)	.27	For melt spinning
.65	Coating (by means of steaming, spraying, spreading, doctoring, pouring, sprinkling)	.272	Spinning heads
.66	Laminating. Backing	.274	Blowing box. Thread guides. Drawing rollers
.8	Final processes. Grading. Pressing. Measuring. Packaging. Stitching. Labelling etc	.3	Drawing machines. Draw twisters
677.04	TEXTILE AUXILIARY MATERIALS	.4	Uptwisters
.042	Generally applied textile auxiliaries	.5	Apparatus for aftertreatment
.1	Water-softening agents —543.32; 628.162; 661.187.76	.7	Driers
.2	Surface-active agents (surfactants), e.g. wetting agents, detergents —661.185	.8	Cutters for staple fibres
.4	Protective colloids. Fibre-protecting agents (e.g. ultraviolet absorbers). Swelling agents. Conditioning agents	.15	Machinery and equipment for production and extraction of natural fibres
.5	Solvents	.151	For production of fibres from stems, leaves, fruits. For decorticating and retting
.6	Buffers. Catalysts. Stabilizers	.2	For production of fibres from stems
.7	Oxidizing agents. Reducing agents	.22	Rippling machines. Deseeding machines. Bundling apparatus
.044	Special textile auxiliaries	.23	Retting apparatus
.1	Auxiliaries for the manufacture of man-made filaments and fibres	.25	For production of long vegetable fibres. Decorticating machines. Breaking machines. Scutching machines
.12	Stabilizing agents (ultraviolet and heat stabilizers)	.26	For processing tow. Shaking and refining apparatus
.13	Softening agents. Hardening agents	.27	For recovery of fibres from waste. Shive ' decorticators
.14	Agents for delustring during spinning. Mass-colouring agents (spin-dyeing agents). Optical brightening agents	.5	For production of fibres from leaves
.15	Crimping agents. Agents for forming hollow fibres	.7	For production of fibres from fruits
.16	Agents for precipitation or coagulation of the thread	.152	For production of fibres from seeds. Gins (cotton gins)
.17	Modifiers. Doping agents	.153	For production of wools, hairs and silks
.22	Lubricants. Softening agents	.154	For production and extraction of mineral fibres
.23	Sizing agents	.155	Sorting machines and apparatus
.25	Smoothing agents. Waxing agents	.156	For scouring, washing, chemical cleaning of fibres (with aqueous solutions or organic solvents)
.047	Textile dyeing and finishing auxiliaries 677.047.1/.6 $\approx$ 677.027.1/.6, e.g. 677.047.1 Auxiliaries for all or several stages of dyeing and finishing (except those at 677.042/.044)	.157	For carbonizing of fibres
	.2 Auxiliaries for preparation and pretreatment (for dyeing and finishing)	.158	For oiling, batching, brightening of fibres For other dressings
	.4 Auxiliaries for dyeing —667.2	.16	Machinery and equipment for cutting, breaking, opening, cleaning, blending
	.5 Auxiliaries for textile printing —667.526	.162	For cutting
	.6 Auxiliaries for finishing	.163	For breaking or tearing (including rag pulling, fibre recovery). Tow-to-top machines
677.05	TEXTILE MACHINERY AND EQUIPMENT	.164	For opening. For cleaning. Bale breakers. Willows. Scutchers. Devils. Others
.051.1	Machinery and equipment for manufacturing man-made filaments and fibres. Machines and accessories for preparing natural fibres for spinning	.166	For blending. Fibre blenders
.12	Machinery and equipment for manufacturing man-made filaments and fibres	.17	Machinery and equipment for carding and web dividing
.122	For treatment of raw materials prior to dissolution or melting 677.051.122 $\approx$ 677.021.122	.178	Parts of cards. Carding parts. Cylinders, workers, strippers etc. Card clothing. Web dividers etc.
.123	For forming of spinning solution or melt. For treatment prior to extrusion	.18	Machinery and equipment for hackling, combing, backwashing, drawing
		.182	Spreaders
		.183	Hackling machines
		.185	Combing machines
		.187	Backwashing machines
		.188	Machines for drawing slivers. Drawing frames
		.052	Spinning, twisting, cabling machines. Machines for manufacturing textured yarns
		.2	Roving frames. Flyer frames
		.3	Ring spinning frames
		.32	For woollen and condenser yarns
		.33	For cotton and worsted yarns
		.35	For bast fibre yarns
		.36	For direct spinning of man-made fibres (tow-to-yarn)
		.43	Can spinning machines. Pot spinning machines. Centrifugal spinning machines
		.45	Flyer spinning machines. Cap spinning machines
		.47	Gill spinning machines
		.48	Open-end spinning machines

677.052.5	Mule spinning machines (self-acting mules)	677.054.838.3	Jacquard attachment. Jacquard harness.	
.6	Doublers and twisters. Cabling equipment.		Comber boards etc.	
.68	Rope-laying machines	.4	Devices for control of shedding. Cards. Card cylinder. Needles, hooks, looping wheels.	
	Machines for manufacture of ropes.		Pegged cylinder. Knives. Others	
.78	Stranding machines	.5	Tappets. Shaft-lifting levers	
	Machines for manufacture of textured yarns (e.g. gear crimpers, extrusion texturing machines)	.6	Reverse motions. Spring reverse motions	
.9	Parts of spinning, twisting, cabling, texturing machines	.7	Devices for shed clearing	
.93	Spindles. Flyers. Ring rails. Rings and travellers	.84	Picking mechanisms, motions. Weft-changing motions	ral
.94	Drafting devices	.842	Devices for insertion of weft. Shuttles. Pirns. Grippers. Weft-inserting needles.	
.942	Roller drafting devices		Weft-inserting jets	stry
.943	Slip-draft devices	.843	Shuttle boxes. Their components	
.948	Parts of drafting devices (e.g. rollers, roller coverings, weighting devices)	.844	Motions for insertion of weft	tricts
.952	Thread guides	.2	Picking motions (e.g. pick-and-pick)	
.953	Thread cleaners	.6	Non-picking motions. Pneumatic motions. Hydraulic motions. Electromagnetic motions.	
.954	Yarn brakes. Tension regulators		Others	
.955	Antiballooning devices, separators	.8	Parts of picking motions. Picking shaft (picking stick). Lug strap (picker). Others	tic
.956	Thread-feeding devices. Rails. Automatic donning and doffing devices	.845	Slays (slays). Reeds. Shuttle guides	ship
.96	Tubes. Bobbins. Pirns etc.	.846	Weft-changing motions. Shuttle-changing mechanisms	
.97	Other parts. Clearing rollers. Wetting, wet spinning, wet twisting apparatus.	.847	Motions for weft or shuttle replenishment.	al
	Aftertreatment devices (e.g. for tarring of ropes)		Magazine, battery. Weft-cutting motions, cutters etc.	of
.98	Special parts of particular types of machine (E.g. of mule spinning machines. Headstock. Carriage. Winding mechanisms etc.)	.85	Safety devices. Stop motions	
.053	Machinery and equipment for winding, reeling, balling, warping, sizing, beaming etc. of yarns	.87	Devices for producing cards. Card-punching machines. Others	
			—676.815.4	
.23	Winding machines	.055	Knitting machinery and equipment	ical
.273	Hank-winding machines	.3	Straight-bar knitting machines	
.275	Wrapping machines. Machines for winding thread on cards	.32	Cotton-type knitting machines	
.276	Assembly-winding devices	.34	Rib knitting machines	
.277	Machines for laying yarns in cans	.38	Parts peculiar to straight-bar machines	nts
.28	Devices for making-up of yarns (e.g. for moistening, for brightening yarns)	.382	Needle-and-sinker devices. Needle bar. Sinker and jack. Catch bar etc.	
.292	Parts (e.g. thread guides, tensioners, yarn cleaners, creeling devices)	.388	Pattern devices. Lace-decking mechanisms. Plush devices. Striping devices. Others	
.296	Accessories (e.g. tubes and other supports, knotting apparatus)	.4	Flat-bar knitting machines	
.7	Machines and equipment for warping, sizing, beaming etc. of yarns (and folded yarns)	.42	With one needle bed	
.054	Looms. Weaving machines and auxiliary devices	.44	With two needle beds	
		.45	V-bed knitting machines. Lamb-type knitting machines	
.3	—681.124	.46	Purl knitting machines	
.32	Looms. Weaving machines	.47	Home knitting machines	
	Wide looms	.48	Parts peculiar to flat-bar machines	
.33	677.054.32 ≈ 677.054.8		Needle-bed assembly. Carriage and cam systems. Pattern devices (e.g. striping devices). Others	=
	Narrow-fabric looms. Smallware looms	.5	Circular knitting machines	
.35	677.054.33 ≈ 677.054.8	.52	Sinker-wheel knitting machines. Loop-wheel machines	
	Circular looms	.528	Parts peculiar to sinker-wheel and loop-wheel machines. Sinker-wheel assembly. Pattern devices (e.g. striping devices, plating attachments)	
.52	677.054.35 ≈ 677.054.8	.54	Small circular knitting machines (diameter up to 165 mm)	
.53	Machines for weaving plain fabrics	.548	Parts peculiar to small circular knitting machines. Cylinder assembly. Dial assembly.	
.54	Machines for weaving weft-pile fabrics (e.g. chenille)		Cam systems. Pattern devices (e.g. striping devices). Others	d
.57	Machines for weaving warp-pile fabrics	.56	Large circular knitting machines (diameter greater than 165 mm) e.g. interlock machines	
.58	Machines for weaving special types of carpet (e.g. for Axminster carpets)	.568	Parts peculiar to large circular knitting machines	
.8	Machines for knotting carpets	.6	Warp knitting machines	3
.823	Weaving mechanisms and motions	.62	Flat warp knitting machines. Tricot knitting machines. Milanese machines. Raschel machines (double-rib looms). Galon (galloon) machines	
	Warp let-off motions (e.g. warp beam brakes, devices for regulating warp tension)		Circular warp knitting machines. Maratte machines etc.	
.825	Fabric take-up motions (e.g. cloth rollers)	.64	Parts peculiar to warp knitting machines	
.827	Temples	.68	Warp beams. Knitting actions (e.g. needle bars, sinker bars). Pattern devices (fall plates etc.). Others	
.83	Shedding mechanisms, motions	.8	Loop-forming elements	
.832	Tappet motions			
.833	Dobbies			
.834	Jacquard machines			
.836	Combined shedding motions (including selvage-forming unit)			
.838	Parts of shedding motions. Shedding accessories			
.2	Harness. Healds etc.			

677.055.82	Needles	677.057.73	Laying machines. Doubling machines. Ironing machines
.84	Sinkers		—648.43; 687.054
.86	Silders		Lapping machines. Wrapping machines
.056	Other fabric-forming machines	.74	Combined machines (e.g. measuring and doubling machines)
.1	Tufting machines	.75	Edge-printing machines
.22	Machines for production of waddings		—677.057.5
.24	Machines for production of fulled felts	.77	Pressing and packing machines
.3	Machines for production of needle felts		—621.798
.4	Machines for production of non-wovens	.78	
	677.056.4 ≈ 677.026.4		
.5	Machines for production of lace		
.6	Embroidery machines	677.07	PRODUCTS OF THE TEXTILE INDUSTRY
.66	Large embroidery machines. Small embroidery machines	.071	Product of spinning of man-made fibres.
.73	Machines for production of knotted fabrics, fringes		Products of preparation of natural and man-made fibres (before spinning)
.75	Machines for production of braidings. Braiding machines	.252	Continuous filaments
.77	Machines for production of trimmings	.258	Cut fibres
.057	Machinery and equipment for textile dyeing, printing and finishing	.6	Products of cutting, breaking, opening, cleaning, blending (e.g. cut and broken natural fibres)
.1	Equipment etc. for processes for all stages of dyeing and finishing	.7	Products of carding (e.g. web, batt, card sliver, slubbings)
.11	Apparatus for control and preliminary fault removal Apparatus for inspection of goods	.072	Yarns. Plied yarns. Cords. Ropes
.12	Equipment for removal of water and air	.3	Ring-spun yarns
.13	Equipment for tensioning and drying. Driers	.32	Yarns from woollen, condenser spinning.
.14	Equipment for humidifying, damping, spraying	.33	Woollen yarns. Condenser yarns
.15	Steaming apparatus. Steamers	.39	Yarns from cotton and worsted spinning
.17	Rope pilers, openers and spreaders. Cutting, piling and rolling equipment	.6	Fancy yarns (e.g. voile yarns, crêpe yarns, jaspé)
.2	Equipment etc. for preparatory treatment (for textile finishing)	.61	Twisted and plied yarns. Threads. Cords. Ropes
.21	Equipment for preparation of goods (e.g. sewing machines)		Twisted and plied yarns etc. according to degree of twisting (e.g. spun core yarns, gimp yarns)
	—687.053	.63	Twisted fancy yarns (e.g. ondé yarns, twisted crêpe yarns)
.22	Singeing equipment	.68	Cords. Ropes. Cables
.25	Cleaning equipment (including washing equipment)	.7	Textured yarns (e.g. false twist, gear-cripped, jet-bulked yarns)
.26	Equipment for caustic batching	.073	Products of winding, reeling, balling, warping, sizing, beaming etc. of single and plied yarns
	—677.057.65	.2	Wound yarns. Reeled yarns. Balled yarns
.27	Bleaching equipment	.7	Warped yarns. Sized yarns. Beamed yarns
.4	Equipment etc. for dyeing	.074	Woven fabrics, textiles
	—667.2	.14	Settling. Set of warp. Set of weft
.41	Equipment for preparation of dye liquor	.16	Design of weave. Types of weave
.42	Dyeing vats, vessels	.162.3	Plain weaves. Tabby weave. Calico weave
.43	Dyeing apparatus (e.g. pin frames, pressure jig equipment)	.5	Twill weave
.44	Dyeing machines (e.g. winch-and-vat; jigs or jiggers)	.7	Sateen weave. Satin weave
.5	Equipment etc. for printing	.164	Combination weaves
	—655.3.025; 677.057.77	.2	Striped weaves
.51	Equipment for production of printing pastes	.3	Check weaves
.52	Equipment for printing by hand	.4	Shading weaves
.53	Printing machines (for block, screen, roller printing)	.5	Crêpe weaves
	—681.625.7	.7	Damask weaves
.54	Equipment for photomechanical printing	.166	Reinforced weaves. Double weaves. Multiple weaves
.6	Equipment etc. for finishing	.168.5	Pile weaves. Velvet weaves. Plush weaves.
.61	Equipment for mechanical finishing	.17	Terry weaves. Looped weaves
.611	Equipment for milling, decatizing, damping		Colour composition. Single shade (self-coloured). Patterned
.612	Equipment for raising, cropping, polishing	.32	Wide fabrics
.613	Equipment for brushing, beating, breaking	.33	Narrow fabrics. Smallwares. Ribbons. Tapes. Straps
.615	Equipment for calendering, pressing, shaping	.35	Fabrics from circular looms
.617	Equipment for mechanical shrinkage	.52	Plain fabrics
.62	Equipment for padding. Foulards (padding mangles)	.53	Weft pile fabrics (e.g. with chenille weft)
.63	Equipment for coating (by means of steaming, spraying spreading, doctoring, pouring, sprinkling). Roller applicators. Others	.54	Warp pile fabrics (e.g. double-pile carpets, terry fabrics, towelling)
.64	Equipment for polymerization and condensation	.57	Special types of carpet. Axminster carpets etc.
.65	Mercerizing machines	.58	Knotted carpets. Machine-knotted carpets.
	—677.057.26		Ghiordes carpets. Smyrna carpets. Persian carpets. Senné carpets
.7	Equipment etc. for final processes	.6	Bobbinets. Tulle
.71	Equipment for checking, control	.075	Knitted fabrics
	—658.562	.5	Circular-weft knitted fabrics (e.g. terry knitted, interlock)
.72	Measuring apparatus and machines	.6	Warp-knitted fabrics (e.g. tricot, Milanese)
	—681.2		

677.076.1	Tufted fabrics	677.193	Fibres from water plants. Marine fibres. Sea wool. Sea grass
.22	Waddings		Peat fibres
.24	Fulled felts. Wool felts. Hair felts	.194	Fibres obtained in the form of chips or shavings. Fibres from conifer needles
.3	Needle felts	.195	—674.82; 674.87
.4	Non-wovens		Vegetable hairs
.42	Fibre-bonded fabrics. Fibre fleeces	.2	Cotton
.44	Strengthened, reinforced non-wovens (e.g. needle fleeces)	.21	Other seed hairs (e.g. Akund floss)
.45	Sew-knit webs. Stitch-bonded fabrics	.22	Fruit hairs. Vegetable down (e.g. kapok)
.5	Lace	.23	Animal fibres
.52	Hand-made lace	.3	—637.62
	—746.21		Wool from sheep
.56	Machine-made lace	.31	677.31:636.36 Merino wool etc.
.6	Embroidery		Fleece wool in general
.62	Hand-made embroidery	.312	Long wool (for combing, on the worsted system)
	—746.3	.313	Short wool (for carding, on the woolen system)
.66	Machine-made embroidery		Recovered wool. Shoddy. Wool wastes
.73	Knotted fabrics. Nets	.314	Wool from Auchenidae. Alpaca. Vicuna.
	—746.25		Llama. Others
.75	Braided products. Braided cords. Facings. Shoelaces. Fringes	.318	Goat hair. Cashmere. Mohair. Others
	Trimings	.32	Camel hair
.77	Products of textile dyeing, printing and finishing	.33	Other hairs and bristles. Hog bristle (pig bristle). Cat hair. Horsehair. Others
.077	677.077 ≈ 677.027, e.g.	.34	Angora rabbit hair
	677.077.611 Milled and fulled fabrics (e.g. flannel)	.35	Silk
	.613 Raised, sheared fabrics etc. (e.g. velour, velvet)	.354.5	—638.2
	.623.52 Mercerized fabrics	.37	Cultivated silk. True silk (from silkworm of <i>Bombyx mori</i>). Raw silk (grège). Tram.
	.625.13 Proofed fabrics (e.g. waterproof fabrics)	.371	Organzine. Half-boiled silk (souple). Scoured, boiled silk (cuite). Others
Principal divisions		.372	Wild silk from <i>Antheraea pernyi</i> . Tasar (tusser) silk
677.1/5	TEXTILE FIBRES	.373	Wild silk from other silkworm species
677.1/3	NATURAL FIBRES	.375	Other natural silks. Spider silk. Silk from molluscs. Sea-silk
	—677.51		—638.54
677.1/2	VEGETABLE FIBRES	.39	Other fibres of animal origin
	—631.558.5; 633.5		677.39:637.63 From feathers etc.
.1	Soft fibres (fibres from dicotyledon stems). Hard fibres (fibres from monocotyledon leaves and fruit)	.4	:637.663 From intestine (gut)
	—633.52; 677.2	.46/47	Man-made fibres
.11	Flax. Linen fibres (fibres from line plant)	.46	—677.5; 678.57.7
.12	Hemp		Man-made fibres from natural polymers
.13	Jute		Man-made fibres from cellulose or other polysaccharides
.14	Various lignified stem fibres from dicotyledons	.461	—661.728; 676.1
.141	Sunn hemp	.462	Cellulose nitrate rayon
.142	Kenaf. Bimil. Gambo. Deccan. Ambari	.463	Cuprammonium rayon
.143	Other malvaceous fibres	.464	Viscose rayon
.15	Various non-lignified stem fibres from dicotyledons	.465	Man-made fibres from cellulose acetate
.151	Ramie fibres. China grass	.466	Man-made fibres from other cellulosic esters
.152	Orties. Nettle fibres.	.467	Man-made fibres from cellulose ethers
.16	Leaf and leaf-sheath fibres of monocotyledons	.469	Other cellulosic fibres
.161	Musaceae fibres. Manila hemp (abaca). Banana fibres	.47	Man-made fibres from polysaccharides other than cellulose and its compounds (e.g. polyuronides). Alginate fibres
.162	Agave fibres. Sisal. Henequen. Others	.472	Man-made fibres from proteins and other natural nitrogenous materials
.163	Fourcroya fibres (Furcraea)		Fibres from proteins (e.g. casein fibres, soya fibres)
.164	Liliaceae fibres. Phormium fibre (New Zealand flax). Yucca fibre. Others	.473	Fibres from other nitrogenous materials.
.165	Bromeliaceae fibres. Pineapple fibres. Caroa. Others	.494	Chitin and its derivatives
.166	Fibres of Pandanaceae (screw pines)		Synthetic fibres
.167	Stipa fibres. Esparto grass (alfa)		677.494 ≈ 678, e.g.
	—677.542		677.494.6 Fibres from polycondensates
.168	Leaf fibres of Palmaceae. Palm-leaf fibres. Raffia		.674 Polyester fibres
.17	Stem fibres of monocotyledons (from stalks, petioles, trunks). Grasses. Straw. Reeds. Stem fibres of Palmaceae. Piassava. Others	.5	.675 Polyamide fibres. Nylon
.18	Fibres from monocotyledon fruits. Coir (coconut fibre). Luffa (loofah) fibres. Others	.51	.7 Fibres from polymerizates (e.g. acrylic fibres)
.19	Other vegetable fibres	.52	Mineral and metal fibres. Braiding materials. Rubber threads. Paper yarns
.191	Fibres from tree bark		Natural mineral fibres. Asbestos fibre. Pele's hair (natural lava fibre)
.192	Fibres from mosses and ferns		—677.1/3
			Artificial mineral fibres. Glass fibres. Slag, rock and artificial lava fibres. Ceramic fibres
			—666.189.2

677.53	Metal fibres	678.017	Testing of mechanical properties
	—621.778		<i>Details by :620.17...</i>
	677.53:669.21 Of gold and its alloys.	.019	Material defects. Resistance to attack
	Gold thread		—678.028.4
.531	Fabrics of precious metals		<i>Details by :620.19</i>
.532	Metallic gauze. Wire gauze. Gauze for screens. Gauze of copper, brass, steel etc.	.02	Manufacturing processes and operations
.533	Wire netting. Mesh of brass, steel, galvanized steel etc.		—66.09
.534	Screens of perforated metal (punched or expanded metal)		678.02:66.095.26 Polymerization
.536	Wire mesh with links sealed with cement or terracotta	.021	processes (in rubber and plastics industries). Addition polymerization
.54	Vegetable braiding and plaiting materials		Processes prior to compounding and/or forming
	—633.58; 677.1	.1	Precoagulation processes. Treatment of latex
.541	Straw and similar products. Straw matting.	.12	Preservation of latex
	Plaited straw etc.	.13	Handling. Purifying
.542	Esparto grass (for matting)	.14	Dilution with water
	—677.167	.15	Concentration
.543	Willow shoots. Osiers (for basket-making)	.16	Homogenization. Blending
.544	Rushes and reeds (of Juncaceae and Cyperaceae)	.17	Compounding
.545	Bamboo. Rattan	.18	Artificial dispersion. Redispersion
.546	Shavings, e.g. rice straw	.2	Coagulation. Spontaneous coagulation
.55	Threads and fibres of rubber and similar elastic materials	.3	Coagulation by mechanical processes
	677.55 ≈ 678, e.g.	.5	Coagulation by smoking
	677.554 Threads of natural rubber	.6	Coagulation by addition of chemical products (or of natural materials containing such products)
.57	Paper threads and yarns	.7	Coagulation by drying
.7	Cable industry	.8	Coagulation by biological methods
.72	Metal ropes and cables	.9	Coagulation by other processes
	—621.778	.022	Treatment of coagulates
.73	Electricity cables. High-tension wires.	.2	Treatment before rolling out or sheeting
	Submarine cables. Hollow cables	.3	Crêpe rolling process
	—621.315.2	.4	Preparation of double, four-ply and sole crêpes
678	INDUSTRIES BASED ON MACROMOLECULAR MATERIALS. RUBBER INDUSTRY. PLASTICS INDUSTRY	.5	Drying of crêpes
	—541.64; 547; 66.0	.7	Sheet rolling process
		.8	Smoking of the sheets
		.9	Treatment of incoherent coagulates, pearls etc.
Special auxiliary subdivisions	<i>The -1 and -9 auxiliaries listed under 62 are not applicable here</i>	.023	Size reduction. Comminution. Compounding. Kneading. Separation. Screening
678-1	Properties and composition of specific materials	.2	Pulverizing. Grinding. Separation. Screening
	<i>Details by :53... and :54...</i>	.3	—621.926/928
-13	Copolymers		Mixing. Blending
	—678.7		—66.063.7
-19	Mixtures of macromolecular materials	.024	Conversion into preforms, blanks etc. for moulding and forming
-2	Machine components	.025	Intermediate operations. Preheating.
	678-2 ≈ 62-2		Purification. Filtration. Others
-4	State, condition, form of materials	.026	Impregnation, coating and cladding with macromolecular compound. Reinforcing.
	678-4 ≈ 62-4		Proofing. Bonding. Cementing. Decorating etc.
-5/-8	Various details of machinery and plant		—678.029.6
	678-5/-8 ≈ 62-5/-8		Impregnation (with macromolecular compound)
-9	Derivatives obtained by further treatment	.2	Coating and cladding (with macromolecular compound). Dipping. Spraying. Flame spraying. Spreading, spread coating.
	678-9 ≈ 66.09, e.g.	3	Electrodeposition. Others
	678-941 Reduction products.		Forming operations
	Hydrogenated derivatives (from 66.094.1)	.027	Calendering
	-943 Oxidation products. Oxygenated derivatives (from 66.094.3)	.2	Extrusion
678.0	GENERAL INFORMATION. PROPERTIES. ANALYSIS AND TESTING.	.3	Spinning
	MANUFACTURING PROCESSES, PLANT AND EQUIPMENT. PRODUCTS AND THEIR APPLICATIONS	.4	—677.021.125.2
.01	Properties. Defects. Constitution. Serviceability. Sampling. Analysis. Testing	.5	Film casting
	678.01:53 Physical properties, defects, testing etc.	.6	Dipping
	:54 Chemical properties, defects, testing etc.	.7	Moulding. Press moulding. Casting (in moulds)
.011	Manufacturing variables. Other factors affecting properties	.9	Special non-plastic forming operations. Deep drawing. Low-pressure moulding. Laminating. Others
.016	Serviceability tests (under practical conditions)	.028	Curing. Vulcanizing. Reclaiming. Other chemical operations during or after forming
	<i>Details by :620.16...</i>	.2	Processes
		.22	Hot curing in sulphur bath
		.24	Vulcanization in sulphur monochloride solution. Cold curing

678.028.25	Steam vulcanization	678.048	Anti-oxidants. Preservatives. Stabilizers
.26	Vulcanization with colloidal sulphur. Peachey process	.049	—66.094.38; 678.041
.27	Dry-heat vulcanization		Softeners. Plasticizers. Wetting agents.
.3	Rate and state of vulcanization and curing	.1	Lubricants. Other minor additives
.4	Faults and difficulties in vulcanization and curing		Softeners in general
	—678.019	.2	—66.063.72;
.5	Devulcanization		for specific substances — 661.7
.6	Recycling process. Reclaiming process	.4	Asphalts. Bitumens
	—678.046.1; 678.46		—665.775
.029	Machining. Fabricating. Finishing	.5	Vegetable oils. Fatty acids and their derivatives. Soaps
.3	Machining. Fashioning		—661.187; 665.3
.4	Joining, reinforcing, strengthening of surfaces. Cementing. Welding. Sewing. Stitching. Riveting. Other methods	.6	Animal oils
.5	Bonding. Uniting with other materials	.7	—665.21
	678.029.5:669 Bonding to metals		Resins. Resin oils. Abietic acid
	:677 Bonding to textiles	.8	Wetting agents. Emulsifiers. Peptizers
.6	Impregnation, coating and cladding with protective materials	.9	—66.063.5/6
	—678.026		Odorants
.7	Finishing. Polishing. Surface hardening etc.	.05	—66.022.392; 665.577
.8	Decoration. Bleaching. Dyeing. Colouring	.051	Other minor additives (e.g. lubricants, mould lubricants)
	—667; 678.047		Plant. Machinery. Equipment
.03	Raw materials (primaries) and semi-processed materials (intermediates) for the rubber and plastics industries	.052	Plant etc. for processes prior to compounding
	—633.91; 66		Plant etc. for treatment of coagulates, crude rubber etc.
.031	Latex (crude latex)	.053	Grinding plant. Mixing plant. Classifying plant
	678.031 ≈ 678.021.1, e.g.		678.053 ≈ 678.023
	678.031.5 Concentrated latex	.054	Preforming plant and machinery (e.g. tableting, briquetting machines)
	(from 678.021.15)	.055	Plant etc. for intermediate operations.
.032	Coagulates, e.g. raw, natural rubber (untreated, uncured), block, crêpe, sheet	.056	Heating and drying plant
	—678.062		Equipment for coating. Dipping plant, spraying plant etc.
.1	Coagulum. Cup lumps. Untreated rubber	.057	678.056 ≈ 678.026
	678.032.12/19 ≈ 678.021.2/9, e.g.		Forming plant. Extruding machines. Moulding machines. Calenders etc.
	678.032.15 Coagulum obtained by smoking	.058	—621.979.3
	(from 678.021.5)	.1	Curing plant. Vulcanization plant
.2	Block rubber. Slabs. Worms	.2	Vulcanization pans
.3	Crêpes	.3	Vulcanization autoclaves
.4	Sole crêpes	.4	Vulcanization presses
.5	Dried crêpes	.5	Hot-air stoves for vulcanization
.6	Lower-grade crêpes. Scrap rubber. Earth rubber. Compo. Skim rubber	.6	Vulcanizers for repairs. Vulcanizers for used, worn objects
.7	Sheet rubber (unsmoked)	.059	Recycling plant. Reclaiming plant
.8	Smoked sheets		Machining plant. Fabricating plant. Finishing plant
.033	Compounded materials. Formulae		678.059 ≈ 678.029
.034	Preforms of various shapes. Pellets. Tablets. Chips. Chunks etc.	.06	—621.9
.04	Auxiliary materials. Additives		Applications of macromolecular materials. Finished products
	—66.022.3		678.06:615.4 Macromoleculars for medical material and equipment (cf. 615.462)
.041	Additives for latex		:621.798 Macromoleculars for packaging
.042	Solvents		:687 Use of macromoleculars in clothing industry and beauty culture (cf. 677.46)
	Details by :546/547		
.043	Vulcanizing agents. Cross-linking agents	.061	Latex products. Compositions and mixings (e.g. lubricants, greases, paints, lacquers, adhesives)
	—661.2; 661.49; 661.691/692; 661.729; 661.8...2		—678.031
.044	Accelerators. Catalysts. Initiators. Activators	.062	Uncured products. Unvulcanized products.
	—66.022.37; 66.097		Crude rubber products
.045	Vulcanization retarders. Polymerization inhibitors. Chain regulators	.063	—678.032
.046	Fillers. Extenders. Compounding ingredients exerting more than one action	.066	Cured products. Vulcanized products
.1	Rubber-containing materials (e.g. regenerated rubber)		Impregnated goods. Proofed goods. Fabrics etc.
	—678.028.6; 678.46	.067	Formed objects. Mouldings. Castings
.2	Carbon black (lampblack). Graphite	.069	Decorated products. Painted products.
.3	Mineral fillers. Inorganic fillers (e.g. metals, kaolin)	.07	Surface-finished products
.5	Vegetable fillers (except rubber) (e.g. wood waste, cotton waste)		Classification according to special characteristics
.6	Animal fillers. Proteins. Leather waste, trimmings. Hide waste, wool etc.	.072	Thermosetting materials in general
.7	Synthetic fillers	.073	—678.6
.047	Colouring materials. Dyes. Pigments		Thermoplastic materials in general
	—667; 678.029.8		—678.5; 678.7

678.074	Elastomers. Rubbery materials in general —678.4; 678.7	678.674	-COOH with acyclic -OH. Acid-alcohol polycondensates. Polyester polycondensates. Alkyd polycondensates. Glyptals
.075	Plastomers —678.5	.675	-COOH with =NH. Acid-amine polycondensates. Polyamide polycondensates. Nylon
.076	Soft materials	.68	Polycondensates synthesized from =CO, halogen-containing, sulphur-containing and other functional groups
.077	Hard materials. Rigid materials	.684	Polycondensates synthesized from sulphur-containing groups or sulphides. Polysulphide polycondensates (e.g. thiokol)
Principal divisions		.686	Polycondensates synthesized from epoxy groups. Polyepoxides. Epoxy resins
678.4	Natural rubber. Other natural macromoleculars containing only carbon and hydrogen	.7	Synthetic polymerization products. Polymerizates. Synthetic rubbers —665.939.57; 678-13
.43	Derivatives with low sulphur content. Soft vulcanized rubber	.71	Hydrocarbon polymerizates in general
.44	Derivatives with high sulphur content. Hard vulcanized rubber. Ebonite. Vulcanite	.74	Monolenic polymerizates (one reactive =C)
.46	Regenerated sulphur derivatives. Reclaimed rubber —678.028.6; 678.046.1	.741	Aliphatic, acyclic polymerizates in general
.47	Derivatives of natural rubber (other than vulcanized)	.742	Monolenic hydrocarbon polymerizates. Polyethylene (polythene). Polypropylene. Polybutylene. Others
.481	Gutta-percha	.743	Monolenic halide polymerizates. Polyvinyl halides. Polyvinyl fluoride (PVF). Polyvinyl chloride (PVC). Polytetrafluoroethylene (PTFE) and homologues. Others
.482	Balata	.744	Monolenic oxygen-containing polymerizates. Acrylic polymers and their esters (e.g. polymethyl acrylate). Vinyl and allyl ester polymers (e.g. polyvinyl acetate, PVAC). Ether polymerizates. Ketone and aldehyde polymerizates. Alcohol polymerizates (e.g. polyvinyl alcohol, PVAL). Others
.483	Chicle	.745	Monolenic polymerizates containing nitrogen, sulphur and other elements. Amine polymerizates (e.g. polyvinyl amine). Others
.484	Guayule	.746	Monolenic aromatic polymerizates without reactive =C in the ring(s). Monolenic hydrocarbon polymerizates (e.g. polystyrene). Nitrogen-containing polymerizates (e.g. polyamines). Others
.5	Plastics (especially semi-synthetic plastics based on cellulose, proteins and other natural macromoleculars containing carbon, hydrogen and oxygen or other elements —678.7	.747	Monolenic aromatic polymerizates with a reactive =C in at least one ring. Coumarone polymers. Polycoumarone. Others
.54	Plastics based on cellulose or its derivatives —661.728; 677.46	.76	Multilenic polymerizates (two or more reactive =C or one or more ≡C)
.542	Plastics based on cellulose or regenerated cellulose	.761	Multilenic aliphatic polymerizates in general
.544	Plastics based on cellulose esters (e.g. cellulose nitrate, celluloid; cellulose acetate etc.)	.762	Multilenic hydrocarbon polymerizates. Diene polymers. Polybutadiene. Others
.546	Plastics based on single cellulose ethers	.763	Multilenic halide polymerizates. Polyhaloprenes. Polychloroprene. Neoprene
.547	Plastics based on mixed cellulose ethers (e.g. with methyl and ethyl alcohol)	.764	Multilenic oxygen-containing polymerizates
.55	Plastics based on compounds (other than cellulose) containing only carbon, hydrogen and oxygen (e.g. starch-based plastics)	.765	Multilenic polymerizates containing nitrogen, sulphur or other hetero-elements
.56	Plastics based on proteins or other natural nitrogenous compounds (with or without oxygen and/or sulphur)	.766	Multilenic aromatic or cyclic polymerizates without reactive =C in the rings
.562	Plant proteins (e.g. soya protein; groundnut, peanut protein)	.767	Multilenic aromatic or cyclic polymerizates with reactive =C in at least one ring
.565	Casein plastics (e.g. casein-formaldehyde)	.768	Multilenic polymerizates with three or more =C
.567	Keratin. Gelatin (collagen). Other scleroproteins	.769	Multilenic polymerizates with ≡C. Acetylene polymers
.58	Plastics based on pitches, resins and other natural materials not conventionally regarded as macromolecular. Oils. Fats. Waxes. Bituminous substances, asphalts, tars. Natural resinous substances. Copals. Others	.82	Synthetic macromolecular compounds obtained partly by saturation of carbon-carbon bonds. Mixed polymerizates-condensates (e.g. sulphone-olefin polymers)
.6	Synthetic polycondensation products. Polycondensates. Synthetic resins. Synthetic fibres etc. —665.939.56; 677.494	.84	Silicon-containing polymers. Silicones. Organosiloxane polymers. Siloxanes
.62	Polycondensates synthesized from -CHO groups. Aldehyde polycondensates. Others	.85	Phosphorus-containing polymers. Phosphonate polymers
.63	Polycondensates synthesized from cyclic -OH groups	.86	Polymers based on other inorganic elements
.632	Aryl -OH with -CHO. Phenoplasts, phenolic polycondensates	679.8	STONE TECHNOLOGY. STONE INDUSTRY —622
.64	Polycondensates synthesized from acyclic -OH groups	Special auxiliary subdivisions	
.65	Polycondensates synthesized from -NH groups	679.8.02	Stoneworking processes and operations —671.15
.652	=NH with -CHO. Amine-aldehyde polycondensates. Aminoplasts. Aniline, urea and melamine polycondensates		
.66	Polycondensates synthesized from -N=C=O groups		
.664	-N=C=O with acyclic -OH. Isocyanate-alcohol, diisocyanate-diol polycondensates. Polyurethanes		
.67	Polycondensates synthesized from -COOH groups		

679.8.02	VARIOUS INDUSTRIES, TRADES AND CRAFTS		679.94	
				1/919
679.8.02 (cont'd)	679.8.021/.027 ≈ 679.8.051/.057, e.g. 679.8.022 Grinding and polishing of stones	679.86 (cont'd)	679.86 ≈ 553.6, e.g. 679.861 Clay. Kaolin. Feldspar. Others (from 553.61) .867 Asbestos. Mica. Vermiculite. Others (from 553.67) Semi-precious stones (e.g. malachite, jade) —622.37 Artificial stones. Imitation gems. Simulated precious stones —666.23; 671.16 Other stones, e.g. very hard stones	
.028	Surface treatment of stones			
.2	Cleaning			
.3	Impregnation			
.05	Tools and machines for stoneworking	.87		
.051	Planing equipment. Milling equipment			ral
.052	Grinding equipment. Polishing equipment	.88		
.053	Cutting equipment			
.054	Turning equipment. Lathes			
.055	Drilling equipment	.89		.try
.056	Cleaning equipment. Splitting equipment			
.057	Equipment for surface treatment, trimming etc. Equipment for roughening, bush-hammering	679.9	TECHNOLOGY OF OTHER NATURAL PROCESSABLE MATERIALS Amber. Meerschaum (sepiolite) —553.673; 679.86	tricts
.06	Stone products	.91		
Principal divisions		.92	Shells (of animals). Tortoiseshell. Mother of pearl —637.61; 639.41; 675.86	ric
679.85	Natural stone. Building stones. Monumental stones. Freestones —622.35 679.85 ≈ 553.5, e.g. 679.854.8 Marble products (from 553.548)	.93	Corals —639.62	ship
		.94	Corozo nut. Vegetable ivory	al of
.86	Various non-precious minerals and earths			
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68 INDUSTRIES, CRAFTS AND TRADES FOR FINISHED OR ASSEMBLED ARTICLES

Special auxiliary subdivisions		681.11.034.5	Transmission devices for special purposes (e.g. for engaging and disengaging alarm, for calendar, date displays etc.)
<i>The -1/-8 special auxiliaries listed under 62, and the -9 auxiliaries listed under 66, are applicable throughout 68, except for -3 and -6 under 681.6</i>		.035	Bodies. Frames. Frameworks
Principal divisions		.1	Plates. Bridge and balance cocks
681		.2	Bearings (including jewels)
PRECISION MECHANISMS AND INSTRUMENTS		.3	Assembly devices. Studs. Screws. Snails etc.
681.1		.036	Cases and accessories
MECHANISMS		—671.121	
.11		.1	Clock cases
Horology. Watch and clock making		.2	Watch cases
<i>—389.2; 529.7; 531.761; 623.542; 671.1</i>		.3	Clock glasses. Watch glasses
Special auxiliary subdivisions		.4	Outside control devices. Buttons, push pieces etc.
681.11-1/-9		.05	Clockmakers' tools. Horological equipment and machinery
Details of watch and clock mechanisms		.054	Machines, machine tools etc. (including Jacot tools, jewel setting tools etc.)
<i>As 62-1/-8 and 66-9, e.g.</i>		.057	Measuring, checking, regulating, timing devices. Watch timers. Movement simulators. Others
681.11-187.4		.058	Hand tools. Escapement files. Burnishers. Tweezers. Clams. Pliers. Tongs. Mainspring punches
High precision. Precision watches and clocks			
-218			
Mountings. Suspension.			
Watch and clock fastenings			
-752			
Devices for damping vibrations, shock			
681.11.03			
Components. Watch and clock movements. Clockwork			
.031		Principal divisions	
Devices providing energy, motive power.		681.111	Ancient kinds of timekeeper. Sundials. Water clocks (clepsydrae). Sand clocks. Sand glasses. Wheel clocks. Others
Winding mechanisms			
.1		.113	Non-portable timekeepers'
.11		.1	House clocks. Wall, table clocks etc.
Mechanical energy stores. Gravity systems, weights. Elastic systems, springs			
.12		.3	Pendulum clocks. Longcase clocks (grandfather, grandmother clocks). Others
Chemical energy sources and stores (e.g. batteries, power cells)		.91	Exterior clocks. Tower, steeple clocks etc.
.13		.92	Astronomical clocks
Nuclear energy sources		.93	Chronometers for navigation (e.g. ships' chronometers)
.2		.94	Quartz crystal clocks
Devices for energy conversion. Winding mechanisms etc.		.114	Atomic, molecular clocks
.21		.1	Portable timekeepers (worn on the person). Watches
Mechanical devices. Manual winders, keys etc. Automatic winders (self-winding devices). Oscillating weights etc.		.8	Pocket watches. Fob watches
.22		.9	Wristwatches
Electric devices. Electromagnet, electric motor etc.		.116	Other kinds of watch. Ring watches. Brooch watches. Pendent watches
.23		.1	Clock systems. Synchronized clocks. Master clocks. Slave clocks
Thermodynamic devices (e.g. bimetallic devices)		.2	Master clocks
.24		.3	Subordinate, slave clocks
Optical devices. Photoelectric cells, rectifiers etc.		.118	Synchronous clocks
.032			Chronographs. Time control and transmission devices
Regulators, governors (especially oscillators and escapements)		.1	—681.174/.175
.1		.5	Timing devices. Chronoscopes (stopwatches etc.). Telephone timers. Parking meters. Others
11		.7	Time control mechanisms. Time switches. Program control clocks. Delayed exposure devices on cameras
Harmonic oscillators. Pendulums. Elastic oscillators (balance wheel and spring etc.). Electromagnetic oscillators. Masers. Others		.8	Time recording devices. Recording clocks. Time stamps. Telltales (watchmen's control clocks). Other visual-record timers
12			Clock-like drive mechanisms (e.g. in recording instruments; in barographs, recording barometers)
Relaxation, time-base oscillators		12	Reckoners of consumption. Industrial gauges. Flowmeters. Counters etc.
13			—681.138.8
Rotary regulators. Centrifugal governors. Flywheels. Others			
2			
Non-periodic regulators. Water clocks (clepsydrae). Sand glasses. Others			
3			
Energy distributors (e.g. escapements)			
4			
Timing devices. Index regulators. Trimming condensers etc.			
033			
Indicating devices			
1			
Optical, visual indicating devices. Dials. Visual displays. Leaves, tablets etc. Pointers. Clock hands etc.			
.2			
Acoustic, auditory indicating devices. Bells, chimes, talking clock etc			
<i>—654.925; 681.848</i>			
.3			
Tactile indicating devices. Blind man's watches etc.			
.034			
Transmission devices (e.g. for transmission of time signals over a distance)			
.1			
Clock and watch trains *			
.2			
Wheel mechanisms (movements and striking mechanisms)			
.3			
Motion works. Cannon pinions. Minute wheels. Ratchets and clicks			
.4			
Hand setting mechanisms			
		.1	Fluid meters. Measuring devices for liquids, gases, vapours
		.2	—532.57
			Fluid measuring vessels
			Reciprocating piston meters (positive meters)

681.121.3	Rotary, oscillating piston meters (semi-positive meters)	681.135	Slot machines for radio, television, gramophone	
.4	Rotary, turbine meters (inferential meters)	.2	Television, video slot machines	
.5	Tipping, tilting flowmeters	.3	Radio slot machines	
.7	Flowmeters working on various principles. Compound, combination meters. Proportion meters	.5	Gramophone, phonograph slot machines. Jukeboxes, nickelodeons	
.8	Rate-of-flow meters. Current meters	—681.84		
.83	Rate-of-flow meters working on thermal principles. Calorimetric flowmeters. Heat-exchanger meters	.136	Slot machines for automatic hiring	ral
.84	Differential-head meters (pressure-difference meters)	.2	Slot machines for optical instruments, opera glasses etc.	
.85	Auxiliary and partial flow meters	.3	Slot machines for domestic articles etc. For hiring bicycle locks, lockable coat hangers etc. For toilet articles. Others	stry
.88	Discharge meters	.5	Slot machines for gymnastic devices, games, amusements. For trials of strength or skill	stricts
.122	Meters for gases and vapours		For games of chance. Pin-ball machines.	s
.2	Meters for wet gases		Fruit machines (one-armed bandits). Others	
.3	Meters for dry gases	.6	Slot machines for weighing. Coin-operated weighing machines	ric
.123	Meters for dry powdery or granular substances	.7	Slot machines for special-purpose measuring devices (e.g. for measuring height, keenness of vision)	ship
.124	Counting, totalizing devices			
	681.124:677.054 Counting devices on weaving machines	.138	Slot machines for selling objects or supplies. Dispensing, vending machines	al
			—658.841.4	of
			681.138:656.835.16 Postage stamp vending machines	
Special auxiliary subdivisions		.2	Slot machines for individual items from a large container or hopper	
681.124.07	Special features on counting devices	.3	Slot machines for individual items from separate compartments	ical
.072	Tens, decimal tripping devices	.4	Slot machines for individual items on a conveyor belt, chain or coil	
.076	Zero-setting devices	.5	Slot machines for individual items arranged in stacks	
.077	Automatic release of an operation (e.g. shut-off of machines, cut-out after reaching specified total)	.7	Slot machines for liquids. Coin-operated drinks dispensers. Money-operated petrol pumps. Others	its
Principal divisions		.8	Slot meters for gas, water, electricity (prepayment meters)	
681.124.1	Counting devices according to kind of counting mechanism (pointer, drum, disc etc.)		—681.12	
.2	Counting devices according to kind of drive mechanism (mechanical, electric)	.17	Registering, recording and control devices	o
.5	Distance counters. Odometers		—681.626	
.7	Vehicle monitoring, control devices	.171	Mechanical tills with recording mechanisms. Cash registers	
	—629.054; 629.1.05			
.125	Calorimeters		Special auxiliary subdivisions	
.128	Level or stage indicators for vessels, containers	681.171.07	Cash register mechanisms	
.2	Indicators with gauge glass	.072	Tens, decimal tripping devices	
.3	Indicators with float	.073	Gearing for subtraction mechanism	
.4	Indicators working on hydrostatic principles	.074	Gearing for multiplication and division mechanisms	F
.5	Indicators working on manometric principles (with air pressure or suction)			
.6	Indicators working on electrical principles (varying resistance, capacitance, inductance etc. Thermoelectric and photoelectric indicators)	Principal divisions		
.7	Indicators with immersed bodies, stationary or moving (e.g. graduated gauging rods, vane wheels)	681.172	Money changing, sorting, distributing, counting machines	
.9	Level indicators for dry powdery or granular substances	.2	Machines for issuing, distributing, paying out money. Change-giving mechanisms	
.13	Slot machines. Vending machines. Automats		—681.131.8	
	—656.035.2	.3	Money sorting machines	
.131	Coin slot mechanisms. Money-taking apparatus in general	.4	Coin tubes, sleeves. Automatic cash containers	
.2	Money insert, slots etc. Coins, tokens, jettons etc. Coin-sorting devices	.5	Money counting and wrapping devices	
.3	Coin testers	.173	Ticket machines. Cancelling machines. Franking machines	
.4	Return, reject mechanisms for coins	.2	Ticket printing and issuing apparatus	d
.5	Devices for exhibiting the coin inserted		—681.625.834	
.6	Stop and start mechanisms	.4	Devices for cancelling travel and other tickets. Ticket punches, perforating devices etc.	
.7	Devices for simultaneous, multiple or partial action	.6	Fare receiving and checking devices (for public transport etc.)	
.8	Accessories of slot machines. Receipt-issuing, change-giving mechanisms. Indicating devices	.7	Postal franking machines	
	—681.172.2		—656.835.33; 686.866	
.132	Slot machines for dispensing objects transformed by the machine itself (e.g. embossed metal labels)	.92	Revenue stamp machines	
.133	Slot machines for producing photographs	.174	Personnel control devices. Time or check clocks. Clocking-in devices	o
	—771.319.3	.7	Watchmen's control clocks. Teltales	r
.134	Slot machines for presenting pictures. For moving pictures (kinescope, mutoscope etc.). Others	.175	For horological aspects — 681.118.7	
			Time control mechanisms. Chronoscopes (stopwatches etc.). Time and date stamps	
			For horological aspects — 681.118.1/7	

681.176	Machines for lotteries, games of chance, betting etc. Score, stake and ballot counting devices. Voting machines. Devices for drawing lottery, raffle tickets etc. Totalizers	681.269	Other kinds of weighing mechanism, according to use or purpose
.178	Control devices for activating machinery. Devices for checking identity, credit cards, tickets etc. Other control devices	.1	Letter balances
.18	Sorting machines. Ciphering and deciphering machines —681.325.67	.2	Weighing machines for bags or sacks
.183	Sorting devices for sorting according to various physical characteristics —681.183 ≈ 53	.4	Weighing machines for articles of particular form (for paper, wool, yarn, wire etc.) 681.269.4 ≈ 62-4
.184	Sorting devices for sorting according to shape —681.184 ≈ 62-4	.6	Weighing devices for mechanical handling and conveying apparatus (e.g. for conveyor belts, bucket elevators, aerial ropeways or cableways)
.187	Mail-sorting machines —656.851	.7	Weighing devices for hoisting or lifting tackle
.188	Cryptographic devices. Ciphering, encoding machines. Deciphering, decoding machines —651.928	.8	Pricing and weighing machines. Devices which indicate both weight and price of goods. Retail or shop scales
681.2	INSTRUMENT-MAKING IN GENERAL. INSTRUMENTATION. MEASURING INSTRUMENTS AND THEIR MANUFACTURE. BALANCES. WEIGHING DEVICES 681.2:531.7 Manufacture of measuring instruments for geometric and mechanical quantities :621.317.7 Manufacture of measuring instruments for electrical quantities	681.3	DATA PROCESSING EQUIPMENT —003; 007; 621.391; 65.011.56 681.3:31 Use of DP equipment in statistics :51 Use of DP equipment for mathematical operations :658.56 Use of DP equipment for quality control <i>Denote named computers by alphabetic extension, Table I(h), e.g.</i> 681.32A/Z Named digital computers
Special auxiliary subdivisions		Special auxiliary subdivisions	
681.2-2	Fixed and moving parts of instruments 681.2-2 ≈ 62-2	681.3-1/-9	Mechanical details, parts, controls, features of data processing equipment 681.3-1/-8 ≈ 62-1/-8 681.3-9 ≈ 66-9
-5	Operation, control, regulation of instruments 681.2-5 ≈ 62-5	681.3.01	Data processing principles —519.6
-7	Servicing, maintenance, assembly, protection of instruments 681.2-7 ≈ 62-7	.02	Design, construction and layout of data processing systems, machines, elements etc. (Systems design etc.)
681.2.08	General principles and theory of measurement and of the design of instruments. Methods of measurement 681.2.08 ≈ 53.08	.021	External. Independent. Free-standing. Off-line
Principal division		.022	Peripheral. On-line. Terminals
681.26	Weighing machines. Balances	.023	Internal. In-line, e.g. 681.327.023 Internal digital stores etc.
Special auxiliary subdivisions		.025	Access (immediate, delayed or random)
681.26.06	Loads and associated devices	.04	Representation(s) of data. Numbers, alphabets, codes —003; 800.92
.07	Lifting, suspension apparatus. Weights	...1/...5	Method of coding <i>The following digits ...1/...5 may be added to each of the subdivisions .041/.048, e.g.</i> 681.3.043.2 Straightforward ternary systems. Three-state systems
.072	Parallel guidance, design of scales etc.	...1	Repetitive
.074	Weights	...2	Straightforward
.077	Various other devices. Testing, adjusting, trueing devices. Securing devices. Levelling devices etc.	...3	Coded, non-error-correcting
Principal divisions		...4	Coded, error-detecting
681.261	Beam balances (including precision, laboratory balances)	...5	Coded, error-correcting
.262	Weighing levers with sliding poise or jockey weight. Steelyards. Bismars	.041	Numeric systems generally
.263	Platform balances with Roberval's linkage (or similar compensation devices)	.042	Binary systems
.264	Compound-lever platform scales (for large commercial loads). Weighbridges	.043	Ternary systems
.1	Simple decimal scales	.045	Decimal systems
.3	Rail scales. Railway weighbridges	.046	Duodecimal systems. Sterling systems
.4	Single wheel scales (for measuring the weight on individual wheels of a vehicle)	.047	More complex systems. Mixed radix systems
.266	Spring balances	.048	Alphabetic systems. Alphanumeric systems
.267.1	Inclination balances	.05	Data transformation and conversion aspects —681.325; 681.335
.2	Balances with arrangements for altering the weighing capacity by addition of auxiliary weights	.053	Conversion, encoding and decoding aspects
.3	Platform balances	.055	Arithmetic operations. Counting, adding, multiplying etc.
.4	Torsion balances	.056	Logical operations. Comparison, sorting, merging etc.
.5	Hydraulic and pneumatic balances	.057	Equation solving. Differential, integral equations etc.
.268	Automatic weighing mechanisms	.06	Software —519.68; 800.92
.2	Automatic weighing machines with continuous feed (for moving substances)	.064	Software compatibility
.4	Automatic weighing machines for filling containers	.066	Operating systems. Programs: monitor, supervisor etc.
		.067	Memory organization (page memory, matrix memory etc.). Memory protection

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681.3.068	Programming automation. Translators. Interpreters. Reprogramming. Emulators. Generators. Compilers. Autocodes. Assemblers. Routine library	681.326.7	Checking and monitoring devices Marginal testing devices. Parity check devices. Verifiers (checking by duplication of operation)	
.07	Storage aspects. Input and output aspects —681.327; 681.337		—681.327.17	sa.
	681.3.07 ≈ 681.327, e.g.	.327	Ancillary digital equipment. Stores, including input and output	
	681.3.074 Mechanical storage aspects (punched card, punched tape)		—621.377.6	
.08	(from 681.327.4); e.g. under 681.322	.1	Direct, human writing and reading devices (and accessories)	teral
	Principles of measurement. Units. Errors and their correction		Class writing and reading devices for specific media and equipment under 681.327.3/8, denoting concepts listed here by '1 subdivided as 681.327.1, e.g.	istry
	681.3.08 ≈ 53.08		681.327.4'11 Writing-in devices for punched and other mechanically encoded media. Punching and embossing equipment ('11 is from 681.327.11)	stricts
Principal divisions			.45'18 Handling equipment for punched or embossed cards ('18 is from 681.327.18)	ts
681.31	Computers and calculators generally		.11 Writing, registering, recording devices	hnic
	For specifically digital, analog or hybrid machines — 681.32/34	.12	Reading, sensing, playback devices	enship
	For data processing equipment other than computers and calculators — 681.39	.13	Combined writing-reading, recording-playback devices	
.32	Digital (or predominantly digital) systems, machines, equipment	.17	Checking and verifying devices	cial
	—681.34	.18	Devices for handling, control and transport of medium	s of
.321	681.32A/2 Named digital computers	.2	Store. Input and output sections or block (generally)	3.
	Digital desk calculators (simple, manually controlled machines, each operation carried out step by step by human operator)		Class specific equipment for input and output (and its use) under 681.327.3/8, denoting concepts listed here by '2 subdivided as 681.327.2, e.g.	hical
.322	Automatic digital computers (complete machines with stored, modifiable program which may include decision-making or conditional operations)		681.327.4'21 Input with punched and other mechanically encoded media (e.g. punched-card or punched-tape input) ('21 is from 681.327.21)	inits
	—681.325	.21	Store input section, area or block	
	681.322.074 Automatic digital computers with mechanical storage (punched card, punched tape)	.22	Store output section, area or block	to
.1	Automatic digital computers with manual data input	.23	Combined input-out devices	
.2	Automatic digital computers with automatic data input	.25	Associative memory devices	
.323	Special-purpose digital systems or (complete) machines	.26	Buffer storages. Cache, stack, scratch-pad and other memories. Index storage	
	681.323:621.9-52 Digital machines for automatic control of machine tools	.28	Read-only memory (ROM). Writable ROM	)F
.325	Data transforming, marshalling and calculating devices	.3	Mechanical storage devices (without encoded media)	
Special auxiliary subdivisions		.4	Punched or other mechanically encoded media (and accessories)	
	The following digits may be added to 681.325 or its subdivisions, e.g.	.44	Punched or embossed (chadless) tape equipment	
	681.325.541 Manually controlled counters (from 681.325.54 and ...1)	.45	—676.816.5	
681.325...1	Manually controlled, desk devices		—676.815.4	
...2	Automatic (program-controlled) devices	.5	Printed copy, film or other surface-marked media (and accessories)	
...21	With manual data input	.54	Printed tape or stationery	
...22	With automatic data input	.57	Film, microfiche. Computer output microfilm (COM) etc.	id
Principal divisions		.6	Magnetic, electrical and optical storage devices	
681.325.3	Converters, encoders, decoders generally	.63	Magnetic drum, disc, tape, wire and card storages	
.5	Arithmetic, calculating devices	.66	Magnetic core storages. Integrated magnetic storages	e
.53	Converters, encoders, decoders	.67	Semiconductor storages	
.54	Counters	.68	Optical storages	
.55	Adders and complementary subtractors.	.7	Delay-line devices. Transducers etc.	
.56	Carry mechanisms	.8	Digital data transmission equipment generally (e.g. telegraph, radio)	D
.57	Subtractors (true subtractors). Borrow mechanisms		—621.39	T
.58	Multiplication devices	.33	Analog (or predominantly analog) systems, machines, equipment	
.59	Division devices		—681.34	
.6	Square-rooting and other arithmetic devices	.332	Analog calculators and computers	
.63	Devices for logical operations (except arithmetic)			
.65	Converters, encoders, decoders			
.66	Logical elements, circuits. AND, OR, NOT etc.			
.67	Comparison devices. Equal-unequal, larger-equal-smaller devices			
.326	Sorting and selection devices. Merging and collation devices (including retrieval units)			
	—681.18			
.3	Control devices. Controllers. Checking and monitoring devices			
	Control devices (including microprogram devices and microprogramming)			

681.332 (cont'd)	<i>Denote mathematical operations by :51...</i>	681.513.6	Adaptive determinate control systems (determinate)
.2	Nomographic devices. Slide rules, discs, cylinders, drums. Materialized nomograms. Ready reckoners —51-3; 519.66/.67	.7	Learning control systems (determinate)
.3	Graphical instruments. Analysers. Integrators etc.	.8	Self-organizing control systems (determinate)
.4	Algebraic equation-solving machines	.514	Control systems with stochastic input 681.514 $\approx$ 681.513
.5	Fourier analysis machines	.515	Automatic control systems or controllers, according to control law
.6	Differential and integral equation-solving machines. Differential analysers	.2	Proportional or static controllers (P controllers)
.335	Analog devices for data transforming and calculating	.3	Integral or astatic controllers (I controllers)
Special auxiliary subdivisions		.4	Proportional-integral controllers (PI controllers)
681.335...12	Mechanical	.5	Derivative controllers (D controllers)
...13	Electrical, e.g. —681.335.713 Electrical differentiators and integrators	.6	Proportional-derivative controllers (PD controllers)
Principal divisions		.7	Integral-derivative controllers (ID controllers)
681.335.2	Analog-digital and digital-analog converters. Shaft position transducers. Angle-to-digit converters. Time-to-number converters etc.	.8	Proportional-integral-derivative controllers (PID controllers)
.4	Adders. Subtractors	.516	Automatic control systems according to control circuit configuration
.5	Multiplication devices. Division devices	.2	Open-loop control systems (feed-forward control systems)
.7	Differentiators. Integrators	.3	Closed-loop control systems (feedback control systems)
.8	Function generators (e.g. graphic followers)	.41	One-dimensional control systems
.337	Ancillary analog equipment. Input and output sections	.42	Multidimensional control systems
.34	Combined, mixed, hybrid computers. Digital-analog computers	.52	Interacting control systems
Special auxiliary subdivisions		.54	Non-interacting control systems
681.34'32	Digital equipment (in combined systems) 681.34'32 $\approx$ 681.32	.7	Control systems according to parameter and structure
'33	Analog equipment (in combined systems) 681.34'33 $\approx$ 681.33	.518	Information systems in automatic control
Principal divisions		.2	Quantity and process estimation systems
681.39	Data processing machines other than computers and calculators 681.39:371.694 Teaching machines (for training keyboard operators etc.)	.3	Measuring information systems
		.5	Automatic supervisory systems. Technical diagnostic systems
681.5	AUTOMATIC CONTROL ENGINEERING. CONTROL SYSTEMS, TECHNIQUES, EQUIPMENT. CYBERNETIC AND AUTOMATION TECHNOLOGY —007; 62-5; 621 3.078; 65.011.56	.52	Automatic control systems and controllers according to the principle of action
Special auxiliary subdivisions		.521	Direct-action automatic control systems (self-actuated control systems)
681.5.01	Principles and theory of control engineering	.522	Indirect-action automatic control systems (power-assisted control systems) in general
.012	Analysis	.523	Fluid-action automatic control systems
.013	Synthesis	.1	Throttle-type automatic control systems
.015	Identification, modelling, parameters etc.	.2	Fluidic control systems and engineering
.7	Impulse response	.4	Hydraulic automatic control systems
.8	Frequency response	.5	Pneumatic automatic control systems
.017	Simulation (control systems)	.524	Acoustic automatic control systems
.03	Systems performance	.525	Optical automatic control systems
.032	Static performance of control systems	.526	Thermal-action automatic control systems —681.536.5
.033	Dynamic performance of control systems. Impulse transfer characteristics	.527	Electrical and magnetic automatic control systems
.034	Frequency response	.2	Electromechanical control systems
.037	Stability	.3	Electrofluidic control systems (electrohydraulic, electropneumatic)
.04	Diagrams	.4	Electroacoustic control systems
.072	Sensitivity	.5	Electro-optical control systems
.073	Precision	.6	Electrothermal control systems
.075	Observability. Controllability	.7	Electronic control systems
.09	Control system faults and failures. Correction methods	.83	Magnetic control systems
Principal divisions		.87	Electromagnetic control systems
681.51	Automatic control systems in general. Technical cybernetic features	.528.2	Control systems using nuclear energy, radioisotopes
.511	Automatic control systems according to linearity of mathematical description	.4	Control systems using chemical action
.2	Linear control systems	.53	Automatic control systems according to the physical variable controlled
.4	Non-linear control systems	.532	Control systems for mechanical variables
.513	Determinate input control systems	.1	Control systems for length, displacement, travel
.1	Stabilizing control systems	.2	Control systems for surface area and section
.2	Program (sequence) controlled systems	.3	Control systems for volume and quantity (of solids, dry substances)
.3	Servo control systems. Servosystems	.5	Control systems for velocity and acceleration
.5	Optimal control systems	.6	Control systems for force (effort), pressure and momentum
		.7	Control systems for energy and power
		.8	Control systems for angle, position and direction
		.533	Control systems for fluid variables

681.533.4	Control systems for liquid variables				
.5	Control systems for gas variables (including air)				
.534	Control systems for acoustic variable	681.6-3	Printing processes		a.
.535	Control systems for optical variables	-32	Relief, letterpress printing		
.536	Control systems for thermal variables	-33	Diagraphy. Screen and stencil printing		
.5	Temperature control systems. Thermostats —536.58; 621.316.79	-34	Planographic printing		
.6	Heat quantity, caloric control systems	-35	Intaglio printing		
.537	Control systems for electric and magnetic variables	-61	Equipment according to colour of ink		eral
.538	Control systems for nuclear and radioactive variables	-612	Individual colours		
.54	Control systems for chemical constitution, state and properties	-62	681.6-612 ≈ 535-2		ustry
.542	Control systems for chemical composition and chemical (or physiochemical) properties	-64	Equipment according to number of colours, e.g.		
.543	Control systems for solid-state chemical variables		681.6-623 Three-colour equipment		istricts
.544	Control systems for liquid-state chemical variables		Inkless printing (relief, embossed effect).		
.545	Control systems for gaseous-state chemical variables		Embossing		ts
.547	Control systems for phase constitution	681.6.09	Combined machines (for more than one printing process)		
.58	Components of automatic control systems. Servocomponents				
.583	Amplifiers. Servo-amplifiers —621.375				
.2	Mechanical amplifiers				
.31	Throttle amplifiers				
.32	Fluidic amplifier devices				
.34	Hydraulic amplifiers				
.35	Pneumatic amplifiers				
.7	Electrical and magnetic amplifiers				
.584	Relays				
.2	Mechanical relays				
.3	Fluid-action relays				
.4	Acoustic relays				
.5	Photorelays. Contactless photorelays				
.6	Thermorelays. Bimetallic and thermoelectric relays				
.7	Electrical and magnetic relays —621.318.5				
.8	Radioactive relays				
.586	Transducers. Sensors				
.2	Mechanical transducers and sensors. Gyroscopic devices				
.3	Fluidic, hydraulic, pneumatic transducers				
.34	Hydraulic transducers and sensors				
.35	Pneumatic transducers and sensors				
.37	Electric-to-fluidic transducers.				
.4	Electric-to-pneumatic transducers				
.5	Acoustic transducers and sensors				
.6	Optical transducers and sensors				
.7	Thermal transducers and sensors				
.71	Electrical and magnetic transducers				
.72	Potentiometric, resistance transducers				
.73	Semiconductor transducers				
.74	Optoelectronic transducers. Photoelectric transducers				
.76	Electrochemical and electrolytic transducers				
.77	Thermionic valve transducers				
.78	Electrostatic transducers				
.587	Magnetic-output transducers (including electromagnetic)				
.2	Actuators				
.3	Mechanical actuators				
.31	Fluid control actuators				
.32	Throttle control actuators				
.33	Fluidic control actuators				
.34	Volume control actuators				
.35	Hydraulic actuators				
.7	Pneumatic actuators				
	Electrical and magnetic actuators				
681.6	GRAPHIC REPRODUCTION MACHINES AND EQUIPMENT —655.1/.3; 76; 774/777; 778.1				
			Special auxiliary subdivisions		
			<i>The -3 and -6 auxiliaries listed under 62 are not applicable here</i>		
			681.6-3	Printing processes	
			-32	Relief, letterpress printing	
			-33	Diagraphy. Screen and stencil printing	
			-34	Planographic printing	
			-35	Intaglio printing	
			-61	Equipment according to colour of ink	
			-612	Individual colours	
				681.6-612 ≈ 535-2	
			-62	Equipment according to number of colours, e.g.	
				681.6-623 Three-colour equipment	
			-64	Inkless printing (relief, embossed effect).	
				Embossing	
			681.6.09	Combined machines (for more than one printing process)	
				Principal division	
			681.61	Typewriters. Shorthand or stenographic machines. Composing machines (typesetting machines). Equipment for production of printing surfaces	
				<i>Applicable only in 681.612/613, and partly in 681.616</i>	
				Special auxiliary subdivisions	
			681.61.06	Details of typewriters and composing machines	
			.062	Internal mechanisms. Movement and control devices	
			.1	Control of type bars	
			.2	Shift mechanisms	
			.3	Carriage-operating mechanisms	
			.4	Line-spacing mechanisms	
			.5	Back-spacing mechanisms	
			.6	Carriage return mechanisms	
			.7	Roller-turning mechanisms	
			.8	Mechanisms for holding and guiding the type. Type bars, wheels etc.	
			.063	Carriage details	
			.2	Margin controls	
			.3	Devices for indicating the position of the carriage	
			.4	Construction and guiding of the carriage	
			.5	Paper-guiding devices (feed rollers, guide plates etc.)	
			.6	Rollers. Bearings for the rollers	
			.064	Inking mechanisms	
			.3	According to form of inking device	
			.34	Mechanisms with inking ribbon. Ribbons (typewriter ribbons)	
			.35	Mechanisms with ink pads	
			.37	Mechanisms with ink rollers	
			.065	Keys. Keyboards	
			.067	Devices relating to type and composed matter	
				Principal divisions	
			681.612	Typewriters in general	
			.1	Type-bar machines with covered type basket	
			.2	Type-bar machines with open type bed	
			.3	Typewriters with type wheel, cylinder, drum etc., with keys	
			.4	Typewriters with type wheel, cylinder, drum etc., with single type control device (e.g. pointer, indicator)	
			.5	Other typewriters with mechanical action. With type-carrying plate. With type-carrying striking bars. With type on endless band or chain, or on rule or strip. With spherical type-carrier or ball	
			.84	Justifying mechanism. Typewriters with justification —655.286	
			.9	Other matters. Silent, noiseless typewriters. Automatic typewriters for copying etc.	
			.613	Specialized typewriters, according to purpose —681.188	
			.1	Braille typewriters	

681.613.2	Typewriters producing special form of record or symbols. Perforating typewriters (producing punched record, e.g. punched tape)	681.617.26	Equipment for coating or plating of stereos (and other relief surfaces), e.g. for chromium-plating
.3	Shorthand or stenographic machines —651.933	.3	Machines and equipment for galvanoplastic duplication of blocks (electrotyping)
.4	Teletype machines. Teleprinters —654.145	.4	Machines and equipment for production of original relief blocks (etching, process engraving, photoelectric engraving)
.5	Typewriters for musical notation	.6	Machines and equipment for production of curved relief surfaces
.7	Typewriters for book or ledger entries.	.8	Equipment for reduction or enlarging of images. Pantographs
.8	Flat-platen typewriters	.618	Machines and equipment for production of non-relief printing surfaces —655.224; 655.226/.227
.615	Tabulating typewriters. Typewriters for tables, tabular material	.3	Machines and equipment for production of planographic printing surfaces
.2	Machines and equipment for production of type. Printing type	.4	Machines and equipment for production of intaglio printing surfaces
.4	Sorts of type. Characters. Symbols. Justifying material. Spacing. Rules	.5	Machines and equipment for production of diagraphic printing surfaces (stencils and screens)
.616	Machines and equipment for casting of type. Typefoundry equipment	.62	Graphic reproduction machines. Printing machines. Auxiliary machinery for printing
	Composing or typesetting machines and equipment		
Special auxiliary subdivisions		Special auxiliary subdivisions	
681.616.06	Details of composing machines	681.62.06	Details. Components
	.063 here has a different meaning from 681.61.063	.061.7	Plate cylinders
.063	Medium for automatic control, e.g. punched tape	.063	Printing mechanisms. Fastening of printing surfaces
.065	Keyboards of composing machines	.3	Platens
.068	Justifying devices in composing machines	.4	Tables
Principal divisions		.5	Impression cylinders, rollers
681.616.1	Composing tools and equipment. Chases. Quoins. Composing frames. Composing sticks. Galleys. Others	.6	Fastening of printing surfaces (to the table or cylinder)
.2	Early typesetting equipment, for composing by hand	.064	Mechanisms for inking and de-inking the printing surface
.3	Mechanisms for composing and distributing ready-made type	.1	Inking mechanisms in general
.4	Machines for composing and casting of type, by matrix	.2	Ink reservoirs
.42	Line composing and casting machines (slug-casting machines), e.g. Linotype, Intertype	.3	Actual inking devices
.422	Matrix magazine mechanisms	.4	Devices for pulverized and solid inks
.425	Casting mechanisms	.5	Damping mechanisms
.426	Mechanisms for alignment and locking of matrices	.6	Holding devices for the inker
.427	Mechanisms for finishing the cast slugs (removal of burr, beard)	.7	Replacement of inkers
.429	Matrices and spacing for line-casting machines	.9	De-inking devices. Wipers etc.
.43	Single-letter composing and casting machines (character-casting machines), e.g. Monotype	.066	Mechanisms for feeding the material to be printed (paper feed etc.)
.47	Machines for assembly of cast type, for office relief-printing machines, e.g. Multigraph	.1	Feed from the roll, in web form
.48	Machines for distributing cast type, for office relief-printing machines	.2	Feed of individual sheets. Sheet feeders in general
.5	Machines for embossing using movable matrices or dies. Die-stamping machines	.3	Sheet feeders with friction rollers, friction bands etc.
.6	Keyboard typesetting machines	.5	Sheet feeders with needles, metal brushes etc.
.7	Photographic typesetting machines. Phototypesetting, photocomposing or filmsetting machines and equipment —655.287	.6	Devices for lifting individual sheets by suction
.8	Special devices for composing	.7	Devices for raising, lowering etc. of the stack
.82	Machines and equipment for producing controlling medium (e.g. tape) for composing machines. Punches for paper tape etc.	.8	Automatic feed mechanisms for cards and envelopes
.86	Equipment for the programming of composing machines by means of data processing	.9	Other details. Retarding devices. Sheet conveyors
.617	Machines and equipment for production of relief printing surfaces —655.222; 655.225	.067	Other mechanisms for conveying and treatment of the material to be printed, within the printing machine
.2	For production of stereotypes (including those of rubber and plastics)	.2	Devices for damping the paper
.22	For production of stereo moulds	.3	Various mechanisms. Clamping grippers. Suction grippers. Point devices
.23	For casting and processing of stereos	.4	Devices to prevent staining, soiling of paper
.24	For processing of relief printing surfaces of all kinds	.5	Delivering, stacking mechanisms for printed sheets
		.6	Collating, sorting mechanisms for printed sheets. Delivery trays. Sorting racks
		.7	Mechanisms for folding and cutting the printed sheets —621.967.8
		.8	Devices for heating, drying and combating static electricity
		Principal divisions	
		681.621	Printing machines for office, administrative and laboratory use. Duplicating machines

681.621.1	Duplicating machines. Copying presses. Document copiers. Hectographs. Spirit duplicators	681.626.13	Letter-stamping devices and machines (for correspondence)	
.3	Stencil duplicating machines	.2	Numbering mechanisms for printing presses	'a.
.4	Duplicating machines with printing type	.3	Date stamps	
.5	Planographic duplicators, direct and offset. Rotary direct lithographic printers. Offset duplicators	.4	Punches. Perforators. Punching machines	
.6	Addressing machines	.628	Auxiliary equipment for printing works —686.1.053.2	
.62	Addressing machines using embossed plates	.3	Perforating machines and devices	veral
.63	Addressing machines using stencils	.4	Bronzing machines and devices	
.64	Addressing machines using cast plates	.5	Devices for printing borders on sheets, envelopes etc.	
.65	Addressing machines using spirit process	.7	Machines for pretreatment and aftertreatment of material to be printed	ustry
.7	Laboratory printing machines (for duplicating write-ups of experiments)	.8	Machines for washing the rollers	stricts
.8	Machines for special duplicating processes (electrical, chemical)	.93	Conveying mechanisms, e.g. conveying tables, transport rollers	ts
.622	Hand printing presses. Platen presses	.94	Measuring apparatus, e.g. block-height measuring gauges, etch-depth gauges, magnifiers	hnic
.1	Early, wooden presses	.95	Devices and machines for preparing blocks	
.2	Single-colour platen presses. Platen processes for monochrome printing	.629	Combined printing machines	enship
.3	Multi-colour platen presses. Platen presses for colour printing	.2	For more than one printing process (e.g. relief-intaglio presses)	
.4	Platen presses for proofing	.6	For combined printing and processing (e.g. printing and punching machines)	cial s of
.6	Platen presses for embossing	.65	Accessories for printing works —667.52; 676.22	s
.624	Relief printing presses. Letterpress printing machines	.651	Various masses and materials	
	<i>For relief platen presses — 681.622</i>	.652	Printing plates and blocks. Metals used in printing	
.1	Flat-bed cylinder presses	.2	Printing plates of natural and synthetic stone.	hical
.4	Rotary letterpress machines	.3	Stone blocks on metal bases	
.41	Sheet-feed rotary letterpress machines	.4	Metal printing plates	
.44	Web-feed rotary letterpress machines	.5	Printing plates of other materials (e.g. rubber, plastics)	mits
.5	Web-feed rotary letterpress machines for colour printing (multi-colour printing)	.6	Flexible printing plates	
.8	Flexographic printing machines	.654	Non-flexible curved printing surfaces	
.625	Non-relief printing presses. Special-purpose printing machines	.5	Rollers for inking, damping, cleaning etc.	
.1	Intaglio printing presses	.6	Cylinders blankets. Rubber blankets	
.11	Copper-plate printing presses. Gravure presses	.7	Damping rollers. Casing of damping rollers	
.12	Flat-bed intaglio presses		Ink rollers. Inking, coating rollers	to
.14	Rotary intaglio presses	681.7	OPTICAL APPARATUS AND INSTRUMENTS —520;77	
.142	Sheet-feed rotary intaglio presses		Special auxiliary subdivisions	
.143	Web-feed rotary intaglio presses	681.7-1/-9	Parts and details of optical instruments	
.2	Planographic printing presses		681.7-1/-8 ≈ 62-1/-8	
.21	Planographic hand presses		681.7-9 ≈ 66-9	
.22	Direct planographic presses	681.7.01	Theory and general characteristics of optical instruments	)F
.23	Offset printing presses —681.621.5	.012	Aberrations	
.232	Cylinder flat-bed offset printing presses	.013	Characteristics and performance of optical instruments	s y).
.233	Sheet-feed rotary offset printing presses	.5	—77.022.8	
.234	Web-feed rotary offset printing presses	.7	Focal length	
.3	Diagraphic printing presses. Screen and stencil printing machines	.8	Depth of focus	
.6	Collographic printing presses. Collotype machines	.015	Image quality. Resolving power. Image contrast	
.7	Presses for printing on various materials —666.1.058.4; 677.057.53	.02	Wavelength range of optical instruments	
.71	For printing on metal. Plate presses etc.	.022	Methods of production of optical elements —666.22	
.8	Printing presses for particular products —655.28.026	.023	Chipless working. Casting, moulding, rolling etc.	ld
.811	Book presses	.024	Machining (with chip formation). Cutting. Drilling, boring	
.812	Newspaper presses	.4	Milling	
.813	Periodical presses	.5	Edge shaping	
.823	Jobbing presses	.7	Grinding and polishing	
.825	Printing presses for packaging, labels	.024	Assembly of optical glasses. Bonding. Fine cementing. Optical contacting. Wringing.	
.834	Printing machines for travel tickets —681.173.2	.025	Fusion. Soldering. Welding	
.838	Braille printing machines		Mounting and retention for working. Coarse cementing. Mechanical and pneumatic clamping	
.842	Music-printing machines	.026	Other processes in optical manufacture.	D T
.843	Map-printing machines	.027	Decementing. Cleaning. Varnishing.	
.97	Ruling machines. Machines for printing grids, graph paper		Lacquering	
.626	Stamping, numbering, date-marking devices —681.17		Lettering. Graduation marking. Graticules	
	Special auxiliary subdivision		Selection. Prescription. Assembly. Selection and fitting of frames	
681.626.084	Inking pads			
	Principal divisions			
681.626.1	Stamping devices. Labelling devices			
.11	Hand stamps. Hand printing devices			

681.7.027.2	Selection and fitting of lenses	681.7.062.7	Polygonal mirrors (arranged parallel to axis).
.6	Insertion of lenses into the frame.		Pyramidal mirrors. Triple mirrors. Stepped mirrors. Honeycomb mirrors (hexagonal mirror arrays)
.028	Preparation of complete spectacles	.8	Mirrors for beam division
.1	Tests, trials. Correction, adjustment of optical apparatus	.063	Gratings (with various rulings on various surfaces). Diffraction gratings of intersecting slits
.2	Combinations of lenses (including experimental combinations)	.064	Apertures. Plates. Filters. Divided circles. Divisions
.03	Correction. Adjustment	.2	Stops (diaphragms). Apertures
	Materials for the manufacture of optical apparatus. Optical glasses and other materials	.3	Plane-parallel plates with special mechanical and geometric-optical properties (with polished, matt or coated surfaces)
	—666.22	.4	Plane-parallel plates with special transmission and electrical properties. Filters
.04	Auxiliary materials for the manufacture of optical apparatus	.42	Absorption filters
.042	Abrasives. Grinding materials	.43	Interference filters
.043	Polishing agents (e.g. rouge, chromium oxide, rare-earth oxides)	.44	Polarization interference filters. Lyot filters
.044	Vehicles for polishing agents (e.g. pitch, textiles, plastics)	.45	Thin films for optical purposes
.045	Cements	.46	Wedge filters
.046	Solvents (e.g. spirit, acetone, benzene, ether)	.5	Plates with aspherical surfaces
.047	Coatings. Varnishes. Lacquers	.6	Plates with graduations. Graticules.
.048	Coolants. Lubricants (oils etc.)	.7	Measuring scales. Divided circles
.049	Optical cloths and textiles for cleaning (e.g. abrasive, polishing and wiping cloths, wadding etc.)	.8	Plates with various surface elements
.05	Equipment, plant, machinery, tools etc. for manufacture of optical instruments	.82	Polarizers
.052	Plant. Installations	.83	Polarization prisms of crystalline material
	—666.1.03	.84	Reflection polarizers
.2	Cleaning plant	.84	Dichroic polarizers
.3	Ventilation plant	.065	Prisms
.4	Coolant pumps	.2	Prisms according to type of surface and degree of reflection (with plane, curved surface; partially or completely reflective)
.5	Equipment for depositing thin films	.3	Prisms according to function. Reflecting prisms. Refracting prisms. Prisms with filter effect. Prisms with polarizing effect
.6	Furnaces. Kilns	.066	Lenses
.053	Machinery	.2	Spherical lenses
.2	General production and preparation machinery. Cutting machines. Drilling, boring machines. Edge-forming machines	.3	Aspherical lenses
.3	Machinery for producing plane and spherical surfaces. Milling, grinding and polishing machines. Lapping machines. Centring machines. Chamfering machines	.4	Lenses without optical effect (without refracting power)
.4	Machinery for producing other surfaces	.6	Protective lenses. Safety lenses
.054	Tools and equipment	.8	—681.738 and references there
.2	Tools for working the optical surfaces. Carriers, supports (e.g. lens holders). Grinding and polishing tools. Pressure tools. Setting, adjusting devices and tools	.067	Lenses with special effects. Lenses with special colour effect. Lenses for correction of aniseikonia
.3	Diamond tools	.2	Lens systems. Objectives. Oculars. Inverting systems. Condensers
.4	Machine tools. Chucks. Grinding spindles	.22	Objectives
.5	Centring clamps. Centring chucks for cementing	.23	Lens objectives in general. Achromatic. Apochromatic. Monochromatic. Fluorite objectives
.6	Washing frames	.24	Mirror objectives (catoptric objectives) in general
.055	Measuring and testing tools. Testing equipment	.25	Telescope objectives
.2	Apparatus for measuring or testing distances, diameters and centring (e.g. gauges)	.25	Photographic objectives
.3	Apparatus for testing surface quality using interference. Trial glasses. Spherometers. Others	.252	—771.351
.4	Apparatus for testing properties of materials. Apparatus for measuring refractive index	.253	Photographic lens objectives. Wide-angle, standard, telephoto, zoom lenses etc
.5	Schlieren testing apparatus. Others	.254	Photographic mirror objectives (catoptric objectives)
.6	Angle-measuring devices. Goniometers	.254	Anamorphic lenses (anamorphotes)
.056	Devices for measuring focal lengths	.26	Optical projection objectives
.057	Control techniques	.27	681.7.067.26 $\approx$ 681.7.067.25
.06	Transport equipment. Packaging material	.28	Cinematographic objectives
.062	Optical elements	.281	681.7.067.27 $\approx$ 681.7.067.25
.1	Mirrors	.282	Microscope objectives
.12	Mirrors according to position and curvature of the reflecting surface	.283	Dry objectives
.14	Front surface mirrors	.285	Immersion objectives
.2	Rear surface mirrors	.288	Microscope mirror objectives (catoptric objectives)
.3	Plane mirrors		Catadioptric objectives
.4	Spherical mirrors		Special types of objective. Contrast objectives. Interference microscope objectives. Photomicrographic objectives
.4	Aspherical mirrors (except plane mirrors). Conic section mirrors. Cylindrical mirrors. Others	.3	Oculars (eyepieces)
.6	Liquid mirrors	.32	Oculars according to number of components. e.g.
			681.7.067.322 Oculars with two components

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681.7.067.33	Huygens oculars	681.723.7	Microscopes according to their application.	
.34	Ramsden oculars		Universal microscopes. Dissection	
.35	Kellner oculars		microscopes. Pocket and travelling	
.36	Orthoscopic oculars. Compensating oculars.		microscopes. Others	ra.
	Periplanatic oculars	.73	Spectacles. Monocles. Contact lenses	
.37	Projection oculars. Projectives	.731	Monocles	
.38	Quartz oculars. Measuring oculars. Special	.732	Spectacles (with optical effect) in general.	
	oculars (e.g. microscope micrometers,		With monofocal, bifocal, multifocal lenses	eral
.5	autocollimation oculars)	.733	Pince-nez. Lorgnettes	
.7	Inverting systems, particularly for telescopes	.735	Contact lenses (scleral and corneal lenses)	
.72	Condensers	.738	Spectacles without optical effect. Safety	
.73	Bright-field condensers		glasses. Protective glasses. Goggles.	istry
.74	Dark-field condensers		Sunglasses	
	Mixed-light condensers (with light of various		—614.893.2; 666.247; 681.7.066.6	
	colours)	.75	Telescopes. Binoculars	istricts
.75	Change-over condensers	.751	Monocular telescopes	I
.76	Vertical illumination condensers (top	.2	Astronomical telescopes	ts
	illumination condensers)		—520.2; 681.782	
.77	Special condensers. Contrast condensers.	.3	Terrestrial telescopes. Observation	hnic
	Interference condensers. Pancratic		telescopes. Sighting telescopes (telescopic	
	condensers (zoom condensers). Ultraviolet	.752	sights). Periscopic telescopes	enship
.068	condensers		Binocular telescopes. Binoculars. Prism	
	Fibre-optic devices		binoculars. Field glasses. Galilean binoculars	
	—666.189.21		Opera glasses	cial
.1	Fibre-optic devices according to flexibility	.756	Telescopes with concave mirror objectives.	s of
	(rigid; flexible)		Reflecting telescopes	
.2	Single fibres	.77	Cameras. Projectors. Collimators	s.
.3	Fibre bundles	.772	Cameras	
.4	Fibre plates. Conical fibre bundles	.2	Photographic cameras. Still cameras	
.5	Fibre straight-edges. Fibre combs		—771.31	
.7	Section converters	.3	Cinematographic cameras (cine-cameras)	hical
.069.2	Radiation sources (Natural sources. Artificial	.7	—778.53	I
	sources, e.g. lasers)		Television cameras	
.3	Radiation receivers. Eyes. Photoelectric	.775	—621.397.61	
	receivers. Image converters. Photochemical		Projectors	units
.07	receivers	.2	—621.397.62; 681.775; 628.946	
	Mechanical elements for optical		Still projectors	
.072	instruments	.5	—778.27	
.2	Mountings and fittings		Cinematographic projectors	I
	Mountings for optical elements (except	.777	—688.746; 778.55	
	spectacle lenses), according to design (e.g.	.78	Collimators	to
	with or without provision for centring; with		Optical and optoelectric measuring and	
	means of focusing; with adhesives, sealing	.782	observation instruments	
	media)		Optical astronomical instruments	
.42	Frames for spectacle lenses	.2	—520; 681.751.2	
.43	Individual elements of spectacle frames.		Astronomical observation and measuring	
	Rims. Bridges. Side-arms. Earpieces etc.		instruments. Astrographs. Astrolabes. Transit	
.44	Fittings, e.g. for rimless spectacles		instruments. Meridian circles. Zenith	
.6	Optical benches and fittings	.4	telescopes. Vertical circles	OF
.073	Casings. Tubes	.42	Auxiliary equipment	
.074	Tube heads		Instruments for solar observation. Coelostats.	
.075	Adjusting, focusing devices. Drives. Coarse		Spectroheliographs. Coronagraphs.	s
	drives. Racks. Fine drives. Micrometer		Heliostats, heliometers. Helioscopes.	y
	screws, gear drives etc.		Heliotropes, heliographs. Solar	),
.076	Supports. Backings (e.g. of glass, of metal)	.43	magnetographs	
.077	Stages. Sliding stages. Cross stages.	.44	Photometers	
	Rotating stages	.45	Interferometers	
.078	Stands for optical instruments	.46	Micrometers	
.08	General principles and theory of optical	.47	Spectrographs	
	measurement and the design of optical	.5	Guidance and control equipment	
	measuring apparatus	.7	Evaluation equipment. Comparators	
	681.7.08 ≈ 53.08		Planetariums, domes	
			—520.98; 727.913	
Principal divisions		.8	Simulators	rid
681.72	Magnifiers. Microscopes	.783	Geodetic and photogrammetric measuring	
.722	Magnifiers		instruments	
	—662.591		—528.51.7	
.723	Microscopes	.2	Optical geodetic measuring instruments.	re
.2	Microscopes according to their mode of		Levels. Theodolites. Tacheometers	
	action. Transmitted-light microscopes.		(tachymeters). Laser range-finders.	
	Incident-light microscopes. Contrast	.3	Setting-out prisms. Others	
	microscopes. Projection microscopes.	.32	Photogrammetric instruments	
	Interference microscopes. Fluorescence	.322	Aerial photogrammetric equipment	
.4	microscopes. Polarization microscopes		Surveying instruments. Serial air-survey	D
	Microscopes according to design Monocular		cameras (automatic cameras). Navigation	IT
	microscopes. Binocular microscopes.		instruments. Laboratory instruments	
	Pancratic microscopes (with zoom	.323	Transformation instruments	
	magnification). Autocollimation microscopes.	.325	Evaluation instruments. Topographic mapping	
	Others		instruments. Stereocomparators. Radial	
			triangulators. Stereoscopes. Others	

681.783.33	Terrestrial instruments	681.785.55	Spectroscopic apparatus with grating.
.332	Surveying instruments (e.g. ballistic measuring cameras)		Diffraction gratings. Grating spectroscopes. Grating spectrometers. Grating spectrographs. Grating monochromators. Grating spectrophotometers. Instruments for producing optimal colours using gratings. Instruments for mixing spectrally dispersed light using gratings
.335	Evaluation instruments (stereo mapping instruments)		Interference spectroscopic apparatus. Interference spectroscopes. Interference spectrometers. Fourier spectrometers
.784	Testing and measuring instruments for medical and ophthalmic optics —616-072; 616-7; 617.7	.57	Evaluation apparatus for spectrograms. Auxiliary apparatus for calibration. Spectral-line photometers
.2	Apparatus for determining the properties of spectacle lenses (objective methods). Ophthalmometers. Keratoscopes. Skiascopes	.58	Other instruments for measuring optical properties. Densitometers. Goniotometers. Instruments for determining focal lengths, apertures. Instruments for determining image properties, aberrations. Instruments for determining optical transmission functions. Twin-telescope instruments. Others
.3	Apparatus for determining visual acuity (VA) and the properties of spectacle lenses (subjective methods). Refraction-measuring spectacle lenses (trial lenses). Trial cases. Phoropters. Sight-test equipment (e.g. test charts, test objects). Sight-testing instruments. Cross-cylinders. Cylinder compensators. Instruments for testing eye coordination. Optometers	.6	Instruments for measuring geometrical properties. Length-measuring, distance-measuring instruments. Angle-measuring, dividing instruments. Goniometers. Coordinate-measuring instruments. Area-measuring instruments
.4	Other instruments for measuring and observing the eye. Ophthalmoscopes. Instruments for testing colour vision. Instruments for measuring internal pressure of eye. Tonometers. Adaptometers. Accommodometers. Exophthalmometers. Pupillometers. Others	.786	Interferometric instruments
.5	Instruments for matching lenses to the eye	.2	Interference refractometers
.6	Instruments for measurements concerned with spectacles and spectacle lenses. Vertex refractometers. Spherometers	.6	Multiple-beam interferometers
.7	Optical therapy devices. Ray lamps. Light condensers. Orthoptic and pleoptic instruments	.7	Special interferometers (e.g. corner-cube, angled-mirror interferometers)
.8	Aids to optical observation and diagnosis. Diagnostic magnifiers. Gonioscopes. Surgical microscopes. Endoscopes. Special colorimeters. Devices for counting blood corpuscles. Fundus cameras. Others	.8	Polarization interferometers
.785	Instruments for measuring optical properties. Optical instruments for determining non-optical properties	681.8	TECHNICAL ACOUSTICS. MUSICAL INSTRUMENTS —534.8; 786/789
.2	Refractometers	.81	Musical instruments in general —688.73
.22	Limiting-angle refractometers. Abbé refractometers. Immersion refractometers. Sphere refractometers. Jewel refractometers. Others		Special auxiliary subdivisions
.23	Deflection refractometers. Difference refractometers. Hilger and Chance refractometers. Microscope refractometers. Spectrometers	681.81.01	Musical instruments according to pitch
.24	Reflection refractometers	.011	Higher than soprano. Sopranino
.3	Polarimeters. Polariscopes. Ellipsometers	.012	Soprano
.4	Photometers —771.376	.013	Alto
.42	Photometers according to their function and wavelength range	.014	Tenor
.422	Filter photometers	.015.1	Baritone
.423	Spectrophotometers	.2	Bass
.43	Photometers for measuring absorption	.016	Lower than bass. Contrabass, double-bass
.44	Photometers for measuring omission. Arc and spark photometers		Principal divisions
.45	Photometers for luminescence. Fluorescence photometers. Phosphorescence photometers	681.816	Keyboard instruments. Pianos. Harpsichords. Organs
.46	Photometers for Raman radiation		Special auxiliary subdivisions
.47	Photometers for measurement of scattered light. Scattered-light photometers. Turbidity photometers	681.816.06	Components of keyboard instruments
.5	Spectroscopic apparatus —543.42	.061	General construction
.52	Filter equipment	.2	Frames. Wreast-planks. Wreast-blocks
.53	Prism spectroscopic apparatus. Dispersion prisms (e.g. Abbé, Amici, Rutherford prisms). Prism spectroscopes. Prism spectrometers. Prism spectrographs. Prism monochromators. Prism spectrophotometers. Instruments for producing optimal colours using prisms. Instruments for mixing spectrally dispersed light using prisms	.3	Cases
		.6	Air cavities
		.062	Resonance devices (soundboards, resonators etc.)
		.063	Stringing. Tuning devices
		.064	Keyboards, manuals. Keys
		.065	Transposition devices. Couplers. Registers
		.066	Action (Hammers, quills, jacks. Hammer heads. Dampers)
		.067	Pedals. Other tone-altering devices. Stops
		.074	Wind supply for organ pipes
			Principal divisions
		681.816.1	Keyboard instruments with strings plucked or struck by tangent. Keyed monochords. Clavichords. Virginals. Spinets. Harpsichords
		.2	Keyboard instruments with keys struck by hammer. Pianofortes. (Upright pianos. Grand pianos)
		.3	Other keyboard instruments. Clavicytheriums. Piano-violins
		.5	Keyboard instruments with tone-production by means of air (in general). Keyboard aerophones
		.6	Organs. Harmoniums

681.816.8	Concertinas. Accordions		
.817	Stringed instruments. Chordophones		
Special auxiliary subdivisions		Special auxiliary subdivisions	
681.817.06	Components of stringed instruments.	681.82.07	Components of mechanical musical instruments etc.
	Accessories	.071	Accessories for music-roll machines (Music rolls. Other accessories)
.061	General construction. Ribs. Backs.	.073	Changing devices for music discs, cylinders etc. (for musical boxes)
.062	Soundposts. Bass-bars. Other parts	.075	Plucking mechanisms. Sound-producing devices
.063	Resonance devices (sound boxes, soundboards, resonators etc.)	.076	Dampers
.064	Stringing. Tuning devices	.079	Other accessories. Music discs, cylinders etc. (for musical boxes)
.066	Keyboards and their equivalent. Keys. Fingerboards, frets etc.		
	Sound-producing and damping devices.	Principal divisions	
	Bows. Bridges. Mutes	681.821	Mechanical aerophones
Principal divisions		.1	Mechanical accordions. Melodeons
681.817.1/.4	Bowed instruments. Violin family. Viol family	.2	Mechanical harmonicas
.1	Violins. Fiddles. Viole d'amore	.3	Mechanical organs. Barrel organs. Fairground organs
.2	Violas. Alto viols	.822	Mechanical music devices with plucked comb mechanism. Musical boxes
.3	Violoncelli (cellos). Viole de gamba (bass viols)	.823	Mechanical pianos. Pianolas (player-pianos)
.41	Double basses. Contrabass viols	.824	Mechanical playing devices for keyboard instruments (pinned cylinder mechanisms, perforated roll mechanisms etc.)
.5/.8	Other stringed instruments. Plucked instruments	.825	Orchestrions (orchestrinas)
.5	Plucked instruments without fingerboard.	.826	Carillons. Mechanical glockenspiels.
.6	Harps. Lyres		Chime-producing movements. Instruments with several methods of sound excitation
.61	Plucked instruments with fingerboard	.827	Mechanical stringed instruments (stroked, struck or plucked)
.62	Guitars	.828	Musical instruments using particular physical phenomena. Electric and electronic sound production
.65	Lutes. Theorbos		—621.37/.38
.68	Mandolins	.2	Sound production by electric pulses (amplified and non-amplified)
.7	Zithers. Psalteries	.3	Sound production using electric oscillators
.81	Banjoes	.4	Instruments with sounding bodies. With electrically excited sounding bodies, e.g. strings. Electric pianos. Instruments with acoustic feedback. Others
.9	Hurdy-gurdies (Vielles. Organistrums)	.5	Sound synthesis and synthesizers
	Stroked instruments without strings (E.g. glass harmonicas, musical glasses. Glass harps)	.83	Music teaching aids. Other music accessories
.818	Wind instruments. Aerophones	.831	Music teaching and practice aids
Special auxiliary subdivisions		.2	Beat or tempo indicators. Metronomes. Batons
681.818.06	Components of wind instruments	.3	Pitch indicators. Tuning forks. Pitch pipes
.062	Reeds	.4	Note indicators for keyboards
.074.2	Mouthpieces, beaks, ligatures etc.	.6	Devices for recording of played music. Music roll perforators
.5	Valves	.835	Accessories for sheet music
Principal divisions		.2	Music holders. Music desks
681.818.1/.4	Brass instruments. Metal wind instruments	.3	Music stands
.1	Trumpets	.4	Page turners for music
.2	Trombones	.84	Sound recording and reproduction
.3	Cornets. Cornets-à-pistons		—621.395.625; 681.135.5
.41	Natural horns. Hunting horns. Post horns. Jagdhörner (Cours de chasse. Corni di caccia). Valve horns (French horns)	Special auxiliary subdivisions	
.43	Saxophones	681.84.081	Devices for recording and reproduction of sound waves
.48	Tubas. Euphoniums, sousaphones etc.	.3	Styluses. Gramophone needles. Recording styluses. Transducing styluses.
.5/.8	Woodwind instruments	.4	Stylus-changing devices
.5	Flutes (Transverse flutes. Vertical flutes, recorders)	.42	Sound boxes. Pickups
.6	Clarinets	.45	Direct mechanical sound boxes (acoustic sound boxes)
.7	Oboes. Cors anglais. Shawms. Krumphorns (crumhorns) etc.	.47	Pneumatic, compressed-air sound boxes
.8	Bassoons	.48	Electromagnetic pickups
.9	Other wind instruments		Condenser-microphone sound boxes.
.91	Alpenhorns. Bagpipes		Electrodynamic, electrostatic, piezoelectric and other electric pickups
.93	Mouth organs (harmonicas)	.082	Control of the stylus. Other devices related to the pickup
.819	Percussion instruments. Idiophones.	.2	Control, guidance of needle or stylus
	Membranophones	.3	Needle holders. Stylus holders, cartridges
.1	Drums. Snare-drums etc. Timpani (kettledrums)	.4	Devices for automatic control of pickup
.2	Cymbals. Rattles. Maracas. Castanets.	.5	Stopping and starting mechanisms
.3	Clappers	.9	Other devices. Cueing devices, for indicating particular passages in a recording. Marking and signalling devices
.4	Triangles		
.5	Tambourines (timbrels)		
	Percussion instruments with sound plates or tubes. Bells, chimebells. Tubular bells. Glockenspiels. Vibraphones. Chinese pavillions (jingling Johnnies). Gongs. Tamtams		
	—673.5		
.6	Other percussion instruments. Xylophones.		
	Celestas		
.82	Mechanical and electric musical instruments		
	—789.9		

681.84.083	Various physical processes of sound recording and reproduction (except direct mechanical or acoustic)	681.883.053	Circular scanning
.5	Optical sound recording —778.534.4	.054	Lateral scanning
.7	Sound recording by electrical resistance	.06	Sonar systems and equipment according to location
.8	Magnetic sound recording	.062	Ship-borne systems
.084	Devices for acoustic transmission of sound waves. Tone arms. Horns, trumpets.	.2	Surface-ship systems
	Speaking tubes. Sound reflectors	.4	Submarine-borne systems
.085	Design and construction of recording studios and equipment	.063	Sea-bed systems
.086	Sound amplification and amplifiers. Megaphones. Resonators, reflectors, modulators etc. —621.375	.065	Buoy-borne systems
.087	Various devices for modifying the sound	.067	Free-floating systems
.3	Mixing, superimposition	.068	Airborne systems
.4	Distortion and its correction	.072	Sonar systems for research
.7	Stereo acoustics in sound recording and reproduction. Achievement of depth and directional effect	.074	Sonar systems for navigation
.089	Other devices	.078	Special-purpose sonar systems (e.g. military, naval sonar)
.1	Record holders or supports (on players), e.g. turntables, spindles	Principal divisions	
.2	Casings, containers for record players. Cabinets, cases etc. Portable, carry-case machines	681.883.2	Sonar systems according to type of radiation
.3	Record storage, containers etc. Protective sleeves, drums. Record cases, racks etc.	.22	Pulsed sonar systems
.7	Record cleaning devices	.24	Continuous-radiation sonar systems
.8	Reworking of recordings (e.g. splicing, joining, editing of tapes)	.26	Bearing by means of non-directional sonar systems
Principal divisions		.27	Bearing by means of directional sonar systems
681.841	General questions of sound recording. Analysis of sound. Measurement of pitch and volume. Test records. Other matters	.4	Sonar equipment (including countermeasures and navigation systems)
.842	Sound reproducing machines in general	.41	Sonars
.843	Cylinder-playing machines. Cylinder phonographs	.42	Echo-sounding apparatus
.844	Disc-playing machines. Disc phonographs. Gramophones. Record players	.43	Sound locators. Hydrophones
.845	Multiple-record machines. Reproducers for more than one cylinder or disc	.44	Sonobuoys
.846	Sound recording and reproducing machines according to physical process employed	.45	Underwater communication. Supersonic telegraphy. Acoustic telemetering systems
.3	Direct mechanical recording and reproduction (acoustic recording and reproduction)	.47	Countermeasures against sonar equipment. Noise generators. False targets. Others
5	Optical recording and reproduction	.48	Sonar navigation systems
7	Electrical or magnetic recording and reproduction. Magnetic recorders	.6	Sonar units
.847	Sound recording and reproducing machines according to application (e.g. dictation machines)	.7	Display and recording devices (indicators and recorders)
.848	Sound reproducing machines combined with other equipment (e.g. with cinematograph equipment, clocks, furniture) —681.11.033.2	.74	Auditory devices
.85	Production of recording media. Records <i>Denote materials by -03 from Table I(k), e.g.</i> 681.85-036 Records of macromolecular materials, rubbers, plastics	.75	Visual observation devices
Special auxiliary subdivisions		.77	Target classification equipment
681.85 025	Optical and optical-electric transcription	.892	Devices for detecting mechanical vibrations (e.g. in geological research, in machine testing)
.027	Electrical methods of duplication. Rerecording, remastering	681.9	ENGRAVING AND SCULPTING MACHINES REPRODUCTION OF RELIEF FORMS —73; 76
Principal divisions		.92	Equipment for pyrography, chasing, engraving etc.
681.853	Manufacture of cylindrical records	.93	Equipment for reproducing relief forms
.854	Manufacture of disc records	.932	Equipment for reproducing sculptures (facsimile, reduction, enlargement)
.88	Acoustic detection, location, direction-finding and ranging devices. Sound locators. Hydrophones. Sonar	.933	Devices for taking the measurements of a sculpture
.883	Sonar methods and equipment. Underwater object location. Echo ranging and sounding	.934	Equipment for producing maquettes, models. For copying the contours of mouldings. For taking mouldings of parts of the human body and other plastic objects. Others
Special auxiliary subdivisions		94	Graving, engraving equipment
681.883.022	Active sonar methods	.944	Equipment for milling or otherwise engraving cylindrical surfaces, rollers etc. Cog cutting machines
.024	Passive sonar methods	.945	Machines for cutting milled or knurled gripping surfaces on switching wheels, knobs etc.
.04	Range	.945	Machines for cutting milled or knurled gripping surfaces on switching wheels, knobs etc.
.052	Step sweep (step-by-step sweep)	.946	Machines for cutting rectangular or parallel lines on plane surfaces. Hachure, cross-hatching machines
		.947	Engine-turning, guilloche equipment
		682	SMITHERY. BLACKSMITHERY. FARRIERY. HAND-FORGED IRONWORK —621.73; 683; 739
		.1	Farriery. Shoe-smithing —636.083.4
		Special auxiliary subdivisions	
		682.1.03	Shoeing nails

682.1.05	Farriers' tools. Tongs, hammers, rasps etc.	683.531	Stoppers for closure of storage vessels (particularly liquor storage vessels)
Principal divisions			Stoppers with devices other than for sealing (e.g. stoppers with pourers, sprays, applicators)
682.12	One-piece horseshoes	.532	Cap closures
.13	Multiple horseshoes		Ball closures
.17	Calks, calkins. Claws		Stirrup clips
.3	Toolsmithing. Edge-tool forging	.533	Devices to prevent re-filling of bottles.
	—621.73; 672.3; 672.7	.534	Non-return valves
.5	Furnishing ironwork	.535	Seals and other safeguards for closures
	—672.94; 683.3; 739.4	.54	Washing, filling and sealing of containers.
.6	Building ironwork		Opening and dispensing devices
	—672.1; 691.7/.8	.55	Cleaning of bottles, glasses, beer piping
.62	Railings. Balconies. Balustrades	.56	Cleaning of bottles
.64	Ornamental ironwork. Signs, plaques etc.		Cleaning of drinking vessels
		.561	Cleaning of beer pipelines
683	IRONMONGERY. HARDWARE.	.2	Filling apparatus. Bottle and cask filling
	LOCKSMITHING. BOTTLING. LAMPS.	.4	Bottling plant for liquor etc. Pressure filling.
	HEATING APPLIANCES	.5	Siphoning
	—672.3; 691.8	.562	Closing, wiring, capping of bottles
		.2	Devices for opening the closures of bottles and other containers. Cap and lid openers
683.3	LOCKSMITHING. DOOR FURNITURE		—641.516; 621.466
	—684.419	.563	Cork extractors. Corkscrews
.31	Bolts. Latches	.564	Devices for opening cap closures. Bottle openers
.311	Simple bolts		Devices for opening tins and jars. Can openers (tin openers). Preserve jar openers
.312	Multiple bolts	.2	Devices for extracting bungs from barrels.
.313	Safety bolts	.3	Bung-drawers
.33	Locks. Keys		Devices for opening boxes and cases. Case openers
Special auxiliary subdivisions		.4	Dispensing equipment. Devices for tapping, drawing, siphoning etc. Beer engines. Siphon bottles. Others
683.33.07	Components of locks	.5	Barrel closures. Bungs etc. Bung securers
.071	Lock grips. Lock handles. Lock releases		Dispensing taps. Cocks, taps, faucets
.072	Lock components. Bolts, keepers, tumblers etc. Keyholes. Others	.8	—621.646.6
.073	Devices to prevent removal of key		Devices for measuring and indicating amounts of liquid
.074	Lock safeguards. Keyhole closures		Beer mats. Beer reckoners, reference marks etc.
.078	Keys	.565	
Principal divisions			
683.331	Simple locks. Locks with day bolt		FUEL OR FLAME LAMPS
.334	Padlocks	.566	—628.9 and references there
.335	Safety locks (with various kinds of key). Deadlocks. Others	.567	Details of fuel lamps
.336	Locks with various safety devices. Combination locks. Time locks. Alarm locks. Mortise locks. Others	.568	—628.95
.338	Locks according to application	.58	Lamp reservoir
.2	Door locks		Fuel supply (fuel feed)
.3	Locks for furniture, boxes, suitcases	683 8	Attachment of reflectors, refractors, shades etc.
.4	Attachment locks	.86	Wicks and accessories. Wick trimmers
.48	Locking devices for prisoners. Handcuffs. Manacles. Shackles	.862	Incandescent bodies, mantles etc. Mantle holders
.34	Cashboxes. Safes. Safe installation. Strongboxes. Strongrooms. Safe deposits. Others	.864	Burners
	—672.93	.865	Bright wick burners in general
.352	Door holders. Safety chains	.867	Blue-flame wick burners
.353	Window securing devices (window catches, locks etc.)	.868	Arrangement of the wick in the burner Wick sleeves. Wick adjusters. Wick fitting devices
.36	Hinges. Pintles. Door and window furniture. Butt hinges. Rollers for sliding doors. Other fittings	.87	Slow burners (in which the gas produced in the wick is not immediately combusted)
	—621.888.2	.871	Bowl burners. Flat flame burners
.37	Closers, checks, retainers etc. for doors and windows	.872	Vapour burners (for volatilized liquid fuel)
.372	Door closers	.873	Hydrocarbon vapour burners. Volatilizers.
.373	Automatic closing devices for windows, doors, shutters (activated by weather, timers etc.)	.874	Evaporators
.374	Door and window checks (slamming preventers), alone or combined with closers	.875	Incandescent gas burners. Acetylene burners
.376	Arresters or retainers for windows, doors, shutters in the open position	.876	—662.951.2
.378	Devices for skylights, grilles, sliding windows, roller blinds etc.	.88	Blue-flame gas burners
		.882	—621.791
683.5	BOTTLING AND DISPENSING ACCESSORIES	.883	Ignition and extinguishing devices
	—621.642.17; 621.798.147; 663.059; 666.171	.884	Ignition devices for lamps with liquid or solid fuels
.51	Serving and drinking vessels and accessories. Bottles, flasks, jugs, jars etc.	.887	Extinguishing devices for lamps with liquid or solid fuels. Extinguishers. Blowers. Snuffers
.53	Closures. Stoppers, corks, caps lids etc.	.888	Ignition and extinguishing devices for gas lamps
			Catalytic gas self-igniters
			Pilot lights and their design. Climbing flames.
			Flashback lines. Others

683.9	HEATING APPLIANCES. STOVES —621.365; 641.53; 644.12; 66.041; 662.9; 697	684.419	Furniture accessories. Cabinet hardware. Handles, Knobs etc. —683.3
.92	Fireplaces, stoves and kitchen ranges in general	.42	Beds. Cots. Divans. Couches —615.478.2
.922	Fuelling devices	.422	Beds 684.422-182.6 Folding beds —685.533
.923	Air supply. Draught regulation		Cots. Cradles
.927	Stoves and kitchen ranges with boiler for hot water supply, with dish warmer etc.	.426	Divans. Day beds. Studio couches —684.433
.929	Ash removal. Cleaning	.428	Seating. Chairs. Seats. Benches. Stools 684.43.07 Upholstered seating
.93	Open fireplaces for space heating. Hearths. Grates —697.243.3	.43	Plain chairs (not upholstered). Straight-back chairs
.94	Closed fires for space heating. Stoves	.432	Easy chairs. Armchairs. Settees. Sofas. Suites
.943	Solid-fuel stoves	.433	Television chairs
.944	Liquid-fuel stoves —662.94	.434	Special types of chair. Pedestal chairs. Swivel chairs. Vehicle seats. Thrones. Chairs of state. Others
.945	Gas-fired stoves, heaters. Gas fires —662.95	.4	Stools
.946	Stoves for solid, liquid or gaseous fuels	.435	Multiple seating. Benches. Settees. Pews etc.
.95	Kitchen ranges. Cooking stoves	.436	Tables. Desks. Workbenches
.953	Solid-fuel cooking stoves	.44	Desks. Writing tables. Bureaux
.954	Liquid-fuel cooking stoves	.444	Counters. Shop counters. Other service counters
.955	Gas-fired cooking stoves. Gas cookers	.446	Workbenches. Worktables. Laboratory benches. Butcher's tables etc.
.956	Cooking stoves for several fuels (e.g. coal-or-gas-fired)	.447	Cabinets. Chests. Cupboards. Room dividers
.957	Electric cooking stoves	.45	Kitchen cabinets. Dressers. Sideboards
.96	Small portable heating appliances	.454	Display cabinets. Showcases.
.97	Hot water systems. Water heaters —644.62; 696.4	.456	Special-purpose cabinets (e.g. radio and gramophone cabinets)
.972	Water circulation systems. Hot water tanks		Bookcases
.973	Direct contact of water container with flames. Kitchen boilers, coppers	.457	Room dividers. Combined shelf and cabinet units
.974	Indirect heating through combustion gases	.458	Shelving. Racking. Stands. Supports
.975	Heating by means of Immersion of element. Immersion heaters	.46	
.98	Accessories for heating appliances. Igniters (e.g. gas pokers). Fire irons etc. —662.58/59		
684	FURNITURE AND ALLIED INDUSTRIES. FURNITURE MANUFACTURE. UPHOLSTERY —645; 672.94; 674 684-1/-9 Details, components etc. of furniture 684-1/-8 ≈ 62-1/-8; 684-9 ≈ 66-9	684.6	VENEERING. MARQUETRY. INLAY ETC. —674.24
684.4	FURNITURE. FURNITURE DESIGN AND MANUFACTURE —674.23 684.4:022 Library furniture and fittings —022.9 :615.478 Hospital furniture —615.478.2 :643.3 Kitchen furniture —645.63 :651.2 Office furniture —651.2:645.4	684.7	UPHOLSTERY. BEDDING. COVERS. HANGINGS —698.7; 745 Bedding. Mattresses. Quilts Upholstery —675.16; 675.61; 684.4.07 Hangings for furniture. Loose covers for furniture Hangings for living rooms. Window hangings. Wall hangings. Arrases —645.2/.3; 691.15; 745.52 Hangings for special purposes (e.g. funeral drapes, hangings for indoor and outdoor festivities) —688.76
Special auxiliary subdivisions		685	SADDLERY. FOOTWEAR. GLOVING. TRAVEL, SPORTS, GAMES AND OTHER EQUIPMENT
684.4 03	Reproduction furniture. Furniture in imitation historic styles —749.1 684.4.03 ≈ 7.03, e.g. 684.4.034 Reproduction Renaissance furniture	685.1	SADDLERY. HARNESS MAKING —629.1.013; 629.112; 636.083.7; 675.12
05	Furniture-making: methods and equipment —667.6; 678	Special auxiliary subdivision	
.07	Upholstered furniture —684.73	685.1.05	Saddler's tools
Principal divisions		Principal divisions	
684.41	Furniture components. Furniture accessories	685.11	Vehicle seats. Vehicle covers etc.
.412	Bases. Support components. Pedestals. Legs. Feet. Struts etc.	.12	Saddlery in the strict sense. Saddles and harness for riding and coach horses —629.11.014
.414	Horizontal surfaces	.14	Harness making. Saddles and harness for working horses and other equines (e.g. pack saddles, panniers)
.415	End-pieces. Back-pieces. Side-pieces (e.g. bed headboards, chair backs, chair arms)	.15	Spurriery. Spur and stirrup making. Other accessories (e.g. bits, buckles, horse brasses)
.416	Closures. Covers (doors, lids, flaps etc.)	.16	Special harness making. Equipment for animals other than equines (e.g. oxen, camels)
.417	Drawers, trays etc.	.17	Whips. Straps, throngs, traces etc.

685.2	ACCOUTREMENTS. BELTMAKING. LEATHER AND OTHER EQUIPMENT —646.4; 675.12; 687.38/.39	685.315.4	Footwear of rubber and guttapercha. Gumboots, wellingtons etc.
.22	Equipment worn round the waist. Belts. Belt buckles and attachments	.316	Footwear for dancing, bathing and sports
.23	Equipment worn over the shoulder. Sashes. Baldrics. Rifle slings. Braces (trouser suspenders)	.1 .3/.9	Dancing shoes. Bathing shoes
.24	Equipment for protecting the arms and hands. Oversleeves. Arm protectors. Muffs		Footwear for sports
.25	Equipment for protecting the body. Leather aprons. Plastrons. Life jackets —614.818; 614.895; 687.17		685.316.3/.9 ≈ 796.3/.9, e.g. 685.316.3 Footwear for ball games. Football boots. Tennis shoes. Others
685.3	FOOTWEAR. OTHER AIDS TO LOCOMOTION —646.4; 675.14; 675.62		.4 Footwear for gymnastics. Gym shoes
.31	Shoemaking. Bootmaking	.318.3	.5 Footwear for hiking, mountaineering etc. Walking shoes. Climbing boots
Special auxiliary subdivisions		.32	.91 Footwear for ice-skating. Skating shoes, boots
685.31.02	Working processes, methods 685.31.02 ≈ 685.31.05	.36	.92 Footwear for skiing. Ski boots
.03	Raw materials (Leather. Fibrous materials Rubber. Wood. Others). Accessories (Waxed thread. Laces. Eyelets. Nails) 685.31.03:675.061.1 Leather from cattle hide, for shoe manufacture	.361 .362 .363 .364 .37	Laces for footwear. Shoelaces. Bootlaces Wooden shoes. Clogs. Clogmaking Specialized footwear and accessories for travel on ice, snow, water. Skates, skis etc —685.65
.05	Tools. Machines		Ice skates and accessories
.051	Tools and equipment for manual shoemaking. Measuring devices. Lasts. Boot trees. Shoemaking tools	.38	Roller skates
.052	Machines and equipment for mechanized shoe manufacture —687.053.72		Snow-shoes. Skis. Accessories (e.g. ski sticks)
.053	Machines for shaping and stretching upper leather. Buttoning and lacing machines. Lasting machines	685.4	Water skis. Accessories
.054	Machines for production of soles and heels (and their preparation for attachment to shoes)	.41 .43	Equipment for walking and moving in special terrains. Stilts. Devices for amplifying jumping force. Pogo sticks
.055	Machines for attaching welts, rands and soles to shoes	.44 .45 .46	Walking and locomotion aids for the infirm and injured. Crutches. Wheelchairs. Others —615.477.2; 615.478.3; 629.111.32
.056	Shoe turning machines. Machines for attaching heels		
.057	Finishing machines for uppers, soles and heels of soled shoes. Edge and heel trimmers. Polishing tools	685.5	GLOVING. GLOVEMAKING —646.4; 675.15; 675.62
.058	Machines for insertion of eyelets, buttons, lace hooks, gussets	.51	Gloves of common leathers (e.g. kid gloves) Furred and lined leather gloves. Fur gloves. Mittens. Muffs. Padded gloves. Boxing gloves. Others
Principal divisions			Gloves of textiles, cut and sewn
685.311	Antique shoes, footwear. Stage shoes: buskins (cothurni) etc. Long-pointed shoes (cracowes). Poulaines. Others	.511 .512 .513	Rubber gloves
.312	Modern shoes. General-purpose footwear. Components 685.312-053.2 Children's shoes —055.1 Men's shoes —055.2 Women's shoes	.514 .516 .53 .531 .533	Entirely woven gloves. Knitted gloves. Lace gloves. Others
.11	General construction. Sole and heel attachment		TRAVEL GOODS. CAMPING EQUIPMENT —675.16
.12	Soles. Insoles. Sock linings		Luggage. Trunks, suitcases, bags —674.6; 688.33
.13	Heels. Heel supports	.534	Trunks and chests in general
.14	Uppers. Boot legs. Toe caps, toepuffs. Tacks, rivets etc.	.535	Suitcases. Valises. Portmanteaus
.16	Closures. Buckles. Clasps	.538	Overnight bags. Holdalls. Grips. Carpet bags.
.18	Metal components and fittings. Studs. Toe protectors. Anti-slip devices (crampons, spikes etc.). Others	.55	Kitbags
.21	Low shoes. Lace-up shoes. Pumps. Sandals. Moccasins. Others	Special auxiliary subdivision 685.55.072	Saddlebags. Knapsacks. Rucksacks. Haversacks. Satchels
.23	High-leg boots. Legging boots. Top boots	Principal divisions 685.551	Cases for utensils. Canteens
.24	Ankle-length boots	.552 .554	Camping equipment
.314.1	House shoes (of textiles etc.)		Tents
.2	Ankle and leg wear. Puttees. Spats. Leggings. Gaiters	.555	Portable bedding and sleeping equipment. Camp beds. Air beds. Sleeping bags —645.47; 645.482; 684.422-182.6
.3	Protective footwear (against weather). Overshoes. Galoshes. Fur-lined boots	.557	Hammocks
.47	Orthopaedic shoes —615.477.1; 675.12	.558	Portable, folding seats. Camp stools. Collapsible chairs
			Travel cushions. Headrests. Travel seats Umbrellas etc. Walking sticks
			Special auxiliary subdivision 685.55.072 Principal divisions 685.551
			Umbrella frames, handles etc.
			Umbrellas (for protection from rain)
			Parasols. Portable sunshades
			Special designs of umbrella and shade.
			Garden and market shades. Awnings.
			Canopies
			Collapsible, telescoping umbrellas and shades. Pocket umbrellas etc.
			Sticks. Canes. Walking sticks —674.73
			Sticks and umbrellas convertible into seats, tables etc. Shooting sticks

685.59	Other travel goods. Label holders or protectors. Insect guards, mosquito nets. Field dispensaries. First aid kits	685.73	Swimming equipment and installations. Frogman flippers. Buoyancy devices (rings, water wings etc.). Water games equipment, goals etc.
685.6	SPORTS AND GAMES EQUIPMENT. EQUIPMENT AND INSTALLATIONS FOR ATHLETICS, GYMNASTICS, PHYSICAL TRAINING	685.8	EQUIPMENT FOR BOARD AND TABLE GAMES
	—796		—688.72; 794
.61	General questions. Score-keeping and indicating devices. Scoreboards. Layout of sports fields, grounds. Equipment for marking out playing areas	.81 .811	Card game equipment and accessories Playing cards (manufacture, appearance and types)
.62	Equipment and installations for games of motion and skill. Skipping ropes. Hoops and sticks. Spinning tops and whips. Marbles. Quoits. Yoyos. Badminton and croquet equipment. Equipment for bowls, skittles, ninepins etc.	.2 .3 .4	Appearance (patterns, designs, suits etc.) Traditional playing cards. Standard cards. Cards to be matched. Combination cards Fancy playing cards with standard suits (illustrated, commemorative, instructional playing cards)
.63	Equipment and installations for ball and throwing games. Equipment for football, rugby, tennis, golf, polo, cricket etc. Balls, bats, other equipment	.5 .6 .7	Fancy playing cards without reference to standard suit systems. Quartets, seven families game. Mexican lottery Tarot cards (traditional, illustrated, simplified) Fortune-telling cards (with commentaries, signs of the zodiac, other figures and illustrations)
.637	Equipment for throwing (without target). Discuses. Weights, shots. Hammers. Spears. Javelins	.8 .82	Magic cards (conjurers', illusionists' cards). Equipment and accessories for games of chance. Dice. Dice beakers etc. Roulette equipment. Equipment for lotto, tombola, housey-housey, bingo etc. Others
.638	Equipment for aimed throwing. Boomerangs. Wooden missiles, clubs		Board game accessories. Chess sets (Chessboards. Chess pieces). Sets for draughts, halma, backgammon. Dominoes
.639	Other equipment for ball and throwing games. Marks, butts, targets	.84	Equipment and accessories for pattern games or puzzles requiring patience or dexterity. Pattern game sets (e.g. solitaire). Jigsaw puzzles. Three-dimensional and manipulative puzzles. Ball-in-hole puzzles. Others
.64	Equipment and installations for gymnastics, athletics, acrobatics	.85	—688.727.9
.641	Gymnastics equipment. Dumb-bells. Indian clubs. Chest expanders, spring grips etc. Others	.87	Equipment and accessories for ball-and-cue games. Billiard tables, balls, cues. Equipment for variants of billiards
.643	Equipment for jumping, balancing and similar exercises. Jumping frames, bars, ropes. Vaulting poles. Vaulting horses and boxes. Springboards. Tightropes. Balancing beams. Others	.88	Table tennis equipment. Ping-pong tables, nets, balls, bats
644	Horizontal and parallel bars		
645	Cross-beams, 'gallows'		
.646	Trapezes. Rings. Ropes. Wall bars. Roundabouts, 'giant strides'. Other equipment		
.647	Equipment for acrobatic and contortionist exercises (e.g. trampolines)	686	BOOKBINDING. METALLIZING. MIRROR-MAKING. STATIONERY
.648	Equipment for training, practice		
	685.648 ≈ 79, e.g.	686.1	BOOKBINDING
	685.648 683 Equipment for boxing training. Punchbags, sparring dummies etc. (from 796.83)		—655.4; 655.534
	.712.3 Equipment for rowing practice	Special auxiliary subdivisions	
65	Equipment and installations for ice skating, skiing, tobogganing etc.	686.1.02	Binding processes
	—685.36		—686.1.02 ≈ 686.1.05
.659	Winter sports installations	.03	Materials and accessories of bookbinding
.1	Ice skating installations. Ice rinks etc.	.05	Binding machines
.3	Skiing installations. Ski jumps. Ski lifts, hoists	.051	Machines for handling the sheets and sections
4	Sledge, sleigh, toboggan runs	.2	Jogging machines. Joggers
5	Bobsleigh runs	.3	Machines for applying adhesive. Gumming, gluing, pasting machines. Machines for end-papering, tipping-in and edge-gluing
6	Equipment for ice games (for curling, ice hockey, ice baseball etc.)	.58	Inserting machines
68	Boxing and wrestling equipment. Boxing and wrestling rings	.052	Binders' presses (e.g. bundling presses, baling presses)
	—685.43	.053.2	Folding machines
		.054	Machines and equipment for binding together the sheets and sections. Sewing, stitching, stapling machines etc.
685.7	MOUNTAINEERING, CLIMBING EQUIPMENT. SWIMMING EQUIPMENT	.7	Machines for unsewn binding (adhesive binding)
	—796	.055	Machines and equipment for processing the sewn book (uncased). Machines for consolidating, compacting, pressing. For rounding the spine. Gluing and casing machines. Edge-colouring and gilding machines
.72	Mountaineering, climbing equipment. Grapnels, grappling irons. Climbing irons, pitons etc. Ropes and roping equipment. Ice axes, picks	.056	Machines and equipment for cutting and guillotining paper and board. Paper saws, cutters, guillotines, trimmers etc.

686.1.057	Machines and equipment for production of book covers, cases. Gold blocking presses. Embossing presses	686.853	Calendars. Tear-off calendars. Perpetual calendars
.058	Machines and equipment for fixing the case or cover to the sewn book. Casing machines. Soft-binding, brochure machines. Book presses (for pressing after casing-in). Machines for applying dust-jackets, wrappers. Others	.854	Newspaper stands. Reading stands
		.855	Journal cases. Protective covers for newspapers
		.86	Office equipment
		.861	Ink wells, ink bottles etc.
		.863.1	Pens. Nibs —672.86
Principal divisions		.2	Penholders
686.11	Binding in the strict sense. Traditional, hand bookbinding. Cases for books in roll form. Volumn cases	.3	Pencils. Coloured pencils. Indelible pencils —667.56; 741.02
.12	Mechanized, mass-production bookbinding	.5	Propelling pencils
.121	Kinds of brochure, pamphlet etc. (e.g. loose-leaf documents)	.6	Fountain pens
.122	Kinds of book binding, book-type binder etc.	.76	Ballpoint pens
.3	Hand-finished bindings	.864	Auxiliary equipment for drawing and writing
.6	Mass-produced bindings	.865	Rulers. Set squares. Protractors. French curves. Drawing pins (thumbtacks)
.8	Appurtenances of books. Book catches, fasteners. Protective covers for books. Dust jackets. Slip cases. Bookmarks	.3	Various items of office equipment
.9	Other book-type binders or bindings. Screw binders. Clamp or springback binders. Others	.4	Office punches (perforators)
.125	Bindery techniques for other products (e.g. mounting of maps and pictures)	.5	Paperweights
.126	Gluing of paper and other materials to paper, board etc. Laminating (with clear film; with metal foil) etc. —676.264	.9	Fastening and stapling equipment. Paper clips and clamps. Staplers
		.866	Writing aids for the blind and other handicapped persons. Braille equipment
		.4	Stamping and marking equipment. Moistening, gumming and stamp-affixing equipment —681.173.7
686.4	METALLIZING OF NON-METALS. GILDING. SILVERING. BRONZING. METALLIC VARNISHING —669.058 and references there; 666.1.056; 666.3.056	.5	Dispensers for sheets of paper and cutters for rolls of paper or stamps
.41	Gilding. Application of gold	.6	Moistening equipment
.43	Silvering. Application of silver	.867	Gumming and affixing devices. Stamp affixers. Others
.45	Bronzing. Application of bronze	.6	Equipment for opening and sealing letters
.49	Application of other metals to non-metals 686.49 = 669, e.g. 686.493 Coppering. Application of copper (from 669.3)	.7	Sealing equipment. Sealing wax. Seals, signets —736.3
		.8	Pen racks. Pen trays
686.5	FRAMING. PRODUCTION OF PICTURE FRAMES	.87	String dispensers
		.872	Pencil sharpeners. Pencil-sharpening machines
686.6	GLAZING. GLASS-CUTTING —666.15/.16; 698.3	.873	Erasing equipment. Rubbers. Erasing knives
		.874	Office furniture and fittings —645.4; 651.2
686.7	MIRROR MAKING —645.492; 666.1.056; 666.266.4	.877	Containers and furniture for papers, forms etc. Stationery cabinets
.71	Hand mirrors. Pocket mirrors. Shaving mirrors	.88	Book supports, troughs, shelves. Portable, movable and rotary bookcases
.72	Wall mirrors (framed and unframed). Mirrors as parts of furniture (e.g. of wardrobes)	.881	Card index furniture. Card cabinets —651.8; 686.84
.74	Mirrors with curved surfaces. Concave and convex mirrors. Mirrors of cylindrical or conical section	.884	Waste-paper bins, baskets
		.886	Drawing and artists' accessories —741.02; 75.023
686.8	OFFICE EQUIPMENT. STATIONERY. WRITING, DRAWING AND ARTISTS' ACCESSORIES —651, especially 651.2, 651.5/.8; 676.22/.23	.887	Paintboxes for watercolours, for oil colours.
.81	Writing blocks. Ledgers. Exercise books	.888	Paint dishes. Palettes
.82	Albums. Adhesive mounts, corners		Modelling materials. Modelling kits, tools etc.
.83	Folders. Files. Portfolios. Document folders, wrappers. Correspondence files. Others		Sets of drawing or mathematical instruments
.84	Card index equipment —651.8; 686.874		Pen or pencil boxes, trays and stands
.842	Equipment for standing or vertical indexes (e.g. in cabinet form)		Slates or tablets for erasable writing.
.843	Equipment for visible indexes		Blackboards. Wallboards. Blackboard wipers
.846	Manual punched-card index equipment. Sorting and other equipment —676.815		
.851	Blotters. Blotting pads —676.252.32		
		687	CLOTHING INDUSTRY. GARMENT MANUFACTURE. BEAUTY CULTURE —646.4; 675.15; 675.62; 677; 746.4
		Special auxiliary subdivisions	
		687.016	Workmanship. Cut. Style <i>The .02/.078 auxiliaries are applicable only to 687.1/.3</i>
		.02	Working procedures. Measurement.
		.05	Production of patterns. Cutting out. Sewing
		.051	Tools and machinery for the clothing industry
		.4	Tools and machinery for preparatory work (e.g. for measuring, for marking the cuts)
		.5	Tailors' dummies. Dressmakers' dummies
		.052	Templates for drawing patterns. Paper patterns
		.053	Cutting-out devices
			Sewing machines. Sewing equipment

687.053.1	Devices relating to the thread (e.g. thread guides, tensioners, thread feed)	687.245	Handkerchiefs
.2	Needles (including sewing-machine needles) —672.82	.246	Night-clothes
.3	Shuttles. Loopers. Bobbins	.25	Clothing accessories
.4	Devices relating to the fabric to be sewn. Fabric feed. Hemmers. Pleating, gathering devices. Others	.254	Underwear. Hosiery
.5	Sewing-machine propulsion, e.g. 687.053.5-871 Hand propulsion	.5	Underwear in general Vests. Slips. Petticoats. Knickers. Briefs. Combinations
.6	Sewing machines according to construction	.8	Hose. Stockings. Tights. Socks. Suspenders. Garters
.62	Tacking machines. Long-stitch machines	.256	Brassieres. Corsets. Bodices
.63	Chain-stitch machines	.26	Household linen
.64	Double lock-stitch machines	.268	Bed linen. Table linen. Bathroom textiles. Kitchen textiles
.65	Machines for chain stitch and lock stitch	687.3	687.268 ≈ 645.48
.66	Machines for specialized stitches		KNITWEAR. TIES. DEVICES FOR SECURING AND PROTECTING CLOTHING
.661	Machines for decorative stitches	.31/.36	Knitwear (e.g. woollens) —677.075
.663	Hem-stitch machines	.37	Neckwear and accessories Neckties (ties). Cravats. Rings, pins, clips, for neckties
.664	Machines for scalloping, edging	.38	Devices for holding, securing and protecting garments. Braces (trouser suspenders). Belts. Sleeve holders. Cycle clips. Others —685.22/.23
.665	Overcast-stitch machines	.39	Other protective devices. Scarves. Mufflers. Neckerchiefs. Arm and leg protectors. Wristlets, leggings etc. —685.24
.666	Looping, binding-off machines		
.67	Swing-needle machines	687.4	HEADGEAR. HATMAKING. MILLINERY
.68	Embroidery machines		Special auxiliary subdivisions
.72	Sewing machines for hard or tough fabrics. Sewing machines for leather, especially footwear —685.31.052		<i>The .02/.078 auxiliaries listed under 687 are not applicable here</i>
.73	Buttonhole-sewing machines	687.4.022	Hatmaking by hand
.74	Machines for sewing various items on to fabrics (e.g. straw, bands on hats, beads, buttons)	.023	Machine manufacture of hats
.75	Machines for sewing straw items (straw mats, straw bottle-covers)	.05	Hatmaking machinery, tools and equipment
.76	Machines for sewing quilted covers		Principal divisions
.77	Machines for repair of fabrics. Darning equipment etc.	687.42	Men's hats (felt, fur, straw hats etc.)
.78	Machines for sewing carpets etc.	.43	Men's caps. Berets. Fezzes. Peaked caps. Tropical hats. Pith helmets (sola topis). Others
.9	Auxiliary processes and devices relating to sewing. Thimbles. Other devices —614.896	.44	Military headgear. Helmets. Shakos. Bearskins —623.445.2
.054	Pressing and damping equipment Smoothing irons. Ironing boards —648.42/.43; 677.057.73	45	Women's headgear. Women's hats, caps, bonnets. Bathing caps. Hat veils
.076	Stiffening in articles of clothing. Backing. Interlining. Padding	.46	Children's headgear
.078	Fastening of clothing —672.83	.48	Hat trimmings. Hat decorations
.2	Hooks and eyes	687.5	BEAUTY CULTURE INDUSTRIES
.3	Press fasteners in general		<i>The .02/.078 auxiliaries listed under 687 are not applicable here</i>
4	Button holes		—613.49; 646.7; 661.187.84; 665.58
6	Cord or string fasteners. Hook fasteners. Clamp or grip fasteners. Laces and eyelets. Others	.51	Manufacture of false hair. Wigmaking (boardwork) —688.75
7	Zip fasteners	.52	Wigs
Principal divisions		.53	Chignons. Hair knots. Hair plaits
687.1	OUTER CLOTHING. TAILORING	.56	Toupees. Hairpieces
11	Men's outer clothing	.57	False beards and moustaches
.12	Women's outer clothing	.58	False eyelashes
13	Children's outer clothing	.53	Hair care. Beard care. Hairdressing profession. Barbering
.14	Sports clothes 687.14 797.2 Swimwear		Special auxiliary subdivisions
.15	Formal dress. Professional clothes Working clothes. House clothes —7.022.7	687 53.02	Working processes
16	Theatrical costumes. Stage clothes —792.024	04	687.53.02 ≈ 687.53.05
17	Workwear (garments for general protection). Overwear —614.89; 685.25	.05	Auxiliary materials, e.g. alum stone (shaving blocks)
.18	Parts of garments (e.g. linings, pockets)	.051	Hair care machinery, tools and equipment
687.2	LINEN WEAR. LINGERIE	.052	Lathering equipment —687.974
.21	Linen wear in general		Haircutting equipment. Hair scissors. Haircutting machines, clippers. Razors. Shaving equipment
.24	Washable linen wear	.053	—672.715; 672.718
.241	Shirts	.2	Equipment for dressing hair and beard
.242	Underpants —687.254.5	.4	Curling irons or tongs
.244	Baby linen. Layette. Napkins (nappies), bibs etc.	.41	Equipment for waving and curling hair (except curling irons)
			Simple equipment. Hair rollers

687.53.053.42	Permanent waving equipment, electric or chemical. Hair curlers	688.2	BUTTONS. BUTTON MANUFACTURE —672.87	
.43	Heaters for waving equipment	.211	Buttons of plastics, horn, glass etc.	
.451	Pinching clamps for hair	.212	Cloth buttons. Washable buttons. Other buttons for clothes	
.471	Curl wrappers, papers etc.		Collar studs. Collar fastenings and safety devices	
.48	Caps or hoods for waving hair. Hair nets	.272	Cuff links. Cuff fastenings and safety devices	
.5	Hair combs (back combs). Hair pins. Hair grips. Hair slides Decorative objects for supporting the finished hairstyle	.273		
	—672.81			
.054	Equipment for washing and drying hair. Devices for hair colouring. Combs	688.3	FANCY GOODS	al
.2	Equipment for washing hair. Shampooing equipment	Special auxiliary subdivisions		
.3	Equipment for drying hair. Hair-driers (including hand-held equipment)	688.3.073	Fasteners for bags, cases etc.	ry
.4	Devices for hair colouring	Principal divisions		
.5	Combs. Rake combs. Hair brushes	688.31	Cases. Caskets. Spectacle cases. Binocular cases. Jewellery cases. Key containers.	icts
.6	Devices for cleaning combs	.33	Toilet bags. Beauty cases	
.058	Other equipment for the hairdressing profession	.34	—685.51; 687.54.058.3	
.3	Shaving mugs, bowls	.35	Tool containers. Tool bags	
.8	Protective gowns, capes for haircutting. Necks rests. Other equipment	.359	Bags. Portfolios. Document cases. Briefcases. Shopping bags. String bags. Beach bags.	c
		.36	Foot muffs	ship
			Ladies' handbags	
			Purses. Wallets	
Principal divisions		688.4	ARTIFICIAL FLOWERS, PLANTS AND FEATHERS. GOODS MADE OF HAIR	l f
687.54	Nail care. Manicure. Pedicure	.42	Artificial flowers	
Special auxiliary subdivisions		.43	Artificial garlands	
687.54.05	Nail care equipment	.44	Artificial wreaths, crosses etc.	
.052	Devices for cutting and shortening nails. Nail scissors, clippers. Nail files	.46	Articles made of feathers. Artificial feathers	
.053	Devices for polishing and cleaning nails	.47	Goods made of hair. Flowers, lockets, medallions etc. of hair	cal
.058.3	Nail care sets with container. Manicure cases			
	—688.33	688.5	Fans	
Principal divisions		.61	Light shades and reflectors. Lampshades	
687.55	Cosmetology. Beauty care		—628.952	
.552	Medicinal beauty care	.62	Screens	ts
.2	Skin care	.63	Covers for flower pots	
.3	Hair care			
.553	Aesthetic care	688.7	TOYS. ARTICLES FOR AMUSEMENT, TRICKS. DECORATIONS	
.2	Making-up. Use of cosmetics		—674.5	
.561	Containers and stands for beauty care		Toys	
.5	Cases for face powder. Powder compacts	.72	—623.447; 685.6/.8	
.563	Equipment for toilet preparations in powder form		688.72:629.111.31 Toy wheelbarrows	
.2	Powder puffs. Powder papers		:648.524 Toy sweeping equipment, brooms etc.	
.3	Powder sprinklers, puffers etc.	.721	Dolls. Doll-like toy animals, e.g. teddy-bears (cf. 688.726). Glove puppets. Dolls' clothes. Dolls' furniture. Trolleys for pull-along dolls etc.	
.6	Cases for make-up sticks, pencils		Dolls' houses and accessories. Dolls' house rooms and equipment	
.566	Scent bags, pads. Scent or perfume bottles	.722	Jumping jacks. Puppets on strings.	
687.8	ARTIFICIAL FURRIERY	.723	Marionettes	
	—675.6/.8	.724	Moving figures. Mechanical toys	
.84	Artificial furriery according to raw material. Artificial furs of feathers, animal hair, wool, synthetics	.2	Self-propelled figures. Climbing figures	
		.3	Figures moved by hand	
687.9	BRUSH INDUSTRY. BROOMS ETC.	.4	Toys with mechanically moving jointed figures	
	—648.52; 675.82	.725	Tops (spinning tops)	
Special auxiliary subdivisions		.726	Non-moving toy figures (e.g. toy soldiers, animals etc.)	
687.9-1	Brushes according to kind of fibre		Moving toys (e.g. toy vehicles)	
	687.9-11/-15 ≈ 677.1/.5		688.727-8 According to motive power	
687.9.05	Brush industry tools and equipment	727	Toy land vehicles (except rail vehicles) Toy road vehicles, cars etc.	
Principal auxiliary subdivisions			688.727.1 ≈ 629.11, e.g.	
687.93	Brooms	.1	688.727.13 Toy motor vehicles (from 629.113)	
.95	Cleaning brushes, e.g. for clothes, furniture, carpets		Toy water craft, boats etc.	
.96	Scouring brushes, e.g. for bottles, glasses, barrels. Scrubbing brushes	.2	688.727.2 ≈ 629.12	
.971	Hairbrushes	.31	Toy aircraft, aeroplanes etc.	
.972	Toothbrushes. Nailbrushes	.35	Inflatable toys	
.974	Shaving brushes	.38	Bubble-making toys. Smoke-blowing toys	
	—687.53.051	.4	Projectiles. Catapults	
.977	Polishing brushes (e.g. shoe brushes)	.5	Optical toys. Colour toys	
.978	Paint brushes. Artists' brushes	.7	Magnetic and electric toys	
	—667.661.2; 75.022	.8	Toy railways. Train sets	
688	FANCY GOODS. TOYS. DECORATIVE ARTICLES	.81	Tracks. Curves. Points. Accessories	
			688.727.81 ≈ 625.1	
688.1	IVORY WORK	.82	Toy rolling stock. Toy locomotives	
	—675.86			

688.727.82 (cont'd)	688.727.82 ≈ 629.4	688.773	Swings. See-saws
.9	Constructional games. Jigsaw puzzles	.774	Rocking horses. Other toy animals for riding.
	—685.85		Hobby horses
.728	Toy armour. Toy helmets. Red Indian outfits.	.775	Slides. Switchbacks. Roller coasters etc.
	Harnesses for toy horses		Water chutes. Chair-o-planes. Big wheels.
.729.1	Hoops		Moving floors. Other equipment
.2	Toys for sand games. Sand moulds etc.	.78	Articles for decorative effects. Wall
.73	Musical toys. Children's musical instruments		decorations
	—681.81	.782	Decoration of surfaces (e.g. by burning.
.731	Individual musical toys		Poker-work)
	688.731 ≈ 681.8, e.g.	.783	Relief decorations
	688.731.181 Toy trumpets	.788	Special ornamental objects. Wall decorations.
.732	Musical instruments as parts of toys.		Special picture frames, mountings.
	Noise-making toys (e.g. rattles, cap pistols)		Ornamental tiles. Ornamental letters and
	—623.447		numbers. Others
.74	Theatre equipment. Panorama equipment.	.79	Other decorative effects. Imitations
	Circus equipment. Music hall equipment.	.792	Lighting effects. Patterns produced by
	Recreation park equipment		projected light (reflected). Transmitted light
	—729.021/.028		effects (e.g. imitation stained glass). Others
.741	Theatre equipment. Stage sets, curtains,	.793	Colour effects. Changing pictures. Trick
	scenery. Equipment for moving them		pictures. Others
.742	Theatre accessories. Equipment for stage	.794	Line effects. Linear patterns
	effects	.795	Decorative surface effects. Marbling, batik
.5	Stage lighting. Projected images etc.		pattern etc.
.8	Equipment for lifting and lowering people.	.796	Imitations of various objects,
	Trap-doors. Theatre machinery		three-dimensional effects etc.
.743	Equipment for panoramas, dioramas,	.2	Imitations of natural substances and patterns
	stereoramas etc.		(e.g. imitation wood grain)
.744	Equipment for circuses etc.	.4	Imitations of artistic works, artificial patterns
.745	Equipment for marionette theatres, shadow		(e.g. textured reproductions of paintings)
	theatres, Punch and Judy shows. Equipment	.797	Varying, changing patterns. Patterns on
	for side-shows		changing surfaces
.746	Equipment for cinemas. Accessories for		
	presenting films	688.9	MISCELLANEOUS SMALL ARTICLES
	—778.55; 791.43	.92	Holders, clasps, hooks etc. Flower holders,
.747	Equipment for peepshows, kaleidoscopes,		pins, etc. Umbrella holders, stands. Carrying
	other shows with interplay of colours (e.g.		handles, rings etc. Others
	colour music)	.93	Smoker's requisites
.749.8	Equipment for mazes	.932	Pipes (tobacco pipes). Hookahs. Narghiles
.75	Party costumes. Disguises. Fancy dress	.933	Accessories and components of tobacco
	—687.51		pipes. Cleaning devices for pipes. Pipe
.751	Masks. Velvet masks. Half-masks		cleaners. Others
.752	Fancy dress. Masquerade costumes.	.934	Accessories for cigars and cigarettes. Cigar
	Dominoes		holders. Cigarette holders. Cigar cutters
.753	Grotesque and comic figures. Animal	.935	Containers for tobacco. Cigar and cigarette
	costumes		cases
.755	Party novelties. Party favours	.936	Ashtrays. Smoker's stands
.756	Accessories for parties, public festivities etc.	.94	Match containers. Match dispensers
	Confetti. Paper streamers. Crackers		—662.536
	—676.816.8	.96	Money boxes. Cash boxes
.76	Decorations for ceremonies, celebrations,		
	public festivities	689	AMATEUR HANDICRAFTS. TECHNICAL
	—684.76		HOBBIES
.767	Christmas trees		—379.82; 7.073; 7.077
.77	Equipment for amusement areas		689:621.396 Amateur radio
	—791.7		
.771	Roundabouts		

69 BUILDING (CONSTRUCTION) TRADE. BUILDING MATERIALS. BUILDING PRACTICE AND PROCEDURE

1/919

	Under 69 is classed information about the building industry generally, including building materials, components, crafts and execution	69.024.1	The roof as protective covering.	
	Manufacture of building materials and components is classed in 66/67, civil engineering questions in 624/628 and architectural questions in 72	.15	Weather-resisting features of roofs. Slope and pitch. Covering materials	
		.2	Roof coverings. Roof materials	al
		.21	Plane framework systems. High-pitched and low-pitched roofs	
			Rafter-pitched roofs. Lean-to roofs.	
			Collar-beam roofs. Ridged or saddle roofs	try
			Span roofs with purlins, with trusses etc.	
		.22	Hipped roofs	fracts
		.23	Curb roofs. Mansard roofs. Gambrel roofs	
		.25	Shed roofs. North-light roofs. Sawtooth roofs	
		.26	Large-span roofs. Hall roofs	
		.3	Flat roofs. Roof terraces (terrace roofs).	ic
			Sealed flat roofs	
		.4	Cupolas. Domes. Vaulted roofs. Lamella roofs. Steeples	ship
			—624.074.2/.3; 624.074.5	
		.5	Shell roofs	
			—624.074.4	al
		.6	Folded-plate roofs	of
		.7	Suspended roofs	
		.8	Roof trusses. Plate-roof girders. Frame trusses. Structural parts	
		.81	Wooden trusses	
		.82	Concrete trusses	cal
		.83	Metal trusses	
		.9	Roof parts. Roof details. Roof openings. Roof glazings. Roof lights. Skylights. Dormers. Roof lanterns. Others	
			Floors. Intermediate floors. Floorings. Ceilings	ts
			—624.072/.074	
		.1	Floors resting on the ground or on sleeper walls	
		.2	Suspended and elevated floors. Subfloors	
		.2	Deckings. Indoor balconies and galleries	
		22	Fire-resisting floors. Flat slab floors. Ribbed slab floors. Precast beam floors. Hollow tile floors	
		.26	Timber floors. Solid timber floors. Wooden joist floors	
		.28	Deckings. Ribbed panels of sheet steel etc.	
		.3	Floorings. Floor finishes (wearing surface) including skirtings and coves of same material	
			—645.1; 666.96	
		.33	Floorings of metal or other minerals	
		.331	Jointless floorings. Floorings of composition, concrete etc.	
		.332	Terrazzo floorings	
		.333	Mosaic and similar floorings	
		.334	Tiled floorings. Small slab floorings. Block floorings	
		.4	Ceilings. Suspended ceilings	
		.026	Stairs. Ramps. Lifts. Escalators	
		.1	Generalities. Dimensions. Pitch. Number of steps per flight. Headroom	
		.2	Types of stairs. Fixed ladders	
		.22	Stairs, stairways, staircases according to location. Exterior steps. Terrace steps	
			Interior staircases	
		.23	Fixed ladders. Step irons. Rung-ladders. Ladder-stairs	
		.25	Staircases and stairways according to design or shape. Straight flights. Winding stairs (spiral staircases etc.)	
		.3	Parts of stairs and staircases	
		.4	Landings. Platforms	
		.5	Inclined planes. Ramps	
		.6	Lifts (personnel elevators)	
			—621.876.1	
		.7	Moving stairs. Escalators	
			—621.876.3	
69.01	BUILDINGS AND PARTS ACCORDING TO MATERIAL AND METHOD OF CONSTRUCTION			
	69.01 ≈ 624.01			
69.02	STRUCTURAL PARTS AND ELEMENTS OF BUILDINGS			
.021	Foundations of buildings			
	—624.1; 69.055			
.022	Walls. Partitions			
	69.022:693.2 Brick or block walls			
	:693.5 Concrete walls			
.1	Boundary walls and party walls in general	.025		
	69.022.1:699.81 Fire-resistant party walls			
	:699.844 Sound-proof party walls			
.2	Walls below damp-proof course level. Parts below ground generally	.1		
.3	Exterior, external walls. Enclosing walls above ground generally. Walls in elevation. Façades	.2		
	—72.011.6	22		
.312	Load-bearing exterior walls			
.313	Non-load-bearing exterior walls	.26		
.32	Exterior walls and facings. Weather-resisting parts	.28		
.321	Solid walls	.3		
.322	Cavity walls. Double-shell walls			
.323	Walls with impervious skins			
.324	Weather-resisting parts. Claddings. Facings. Weather-boarding. Curtain walling. Others			
.327	Infilling walls to framed structures	.33		
	Denote materials by :691...	.331		
.33	Details of exterior walls. Various related parts according to location. Projections etc.	.332		
.37	Details of floor and wall junctions.	.333		
	Spandrel-beams. Window-spandrels	.334		
.38	Balconies. Canopies. Other cantilevered projections	.4		
.39	Details at ground level (e.g. entrances)	.026		
.4	Internal walls. Cross-walls	.1		
.412	Load-bearing cross-walls	.2		
.413	Non-load-bearing cross-walls	.22		
.5	Partitions			
.9	Wall details in general. Wall projections. Corbels, cornices, string-courses etc. Wall junctions. Corners, angles, quoins etc. Wall piers. Buttresses. Wall recesses. Chases	.23		
	—624.164	.25		
.99	Wall openings and their surroundings in general. Voids. Doorheads. Lintels. Reveals. Sills. Thresholds			
	—69.028	.3		
.024	Roofs and roofing. Roof shapes. Roof construction and structural parts. Roof accessories	.4		
	—624.072/.074; 624.91	.5		
		.6		
		.7		

69.027	Accessory parts of constructions. Chimneys. Ventilating shafts. Ducts. Access covers	69.057.4	Erection, lifting, sinking, floating of single parts or complete structures
		.5	Shuttering (falsework, formwork or moulds). Centering
.1	Chimneys. Chimney stacks. Flues	.51	Types of shuttering
	—697.8 and references there	.52	Forms. Shuttering for walls, partitions and generally upright structural parts. Vertical and horizontal movable shuttering. Sliding forms. Climbing framework
.4	Ventilation shafts		Shuttering for floors. Shuttering for horizontal parts of structures generally
.5	Various chutes and accessories Coal chutes. Refuse, rubbish chutes		Inflatable, deflatable shuttering. Pneumatic formwork
.7	Service ducts for pipes etc. Cable ducts. Heating ducts. Walkable ducts	.53	Centring and forms for arches. Shuttering for piers, columns, chimneys, conduits, ducts etc.
.8	Means of access to services (horizontal covers etc.). Gratings. Manholes	.55	Permanent shuttering. Self-supporting shuttering
.9	Trapdoors. Cellar flaps		Construction scaffolding. Working platforms and staging. Inflatable, deflatable scaffolding
.028	Doors. Gates. Windows. Service openings	.58	Plant and equipment for handling and transport on site
	—683.3; 69.022.99		—621.86/.87
.1	Doors. Gates. Sliding and rolling grilles		Site tests. Investigation of complete structures
.2	Windows (including shop, display windows)	.59	—624.04
.3	Shutters. Blinds. Awnings		Maintenance of buildings. Damage. Collapse. Dilapidation. Repair. Strengthening.
.4	Ventilating and sealing devices for doors and windows. Draught excluders	.6	Conversion. Displacement. Reconstruction
.6	Fanlights	.7	Maintenance in general. Inspection. Cleaning
.7	Service and observation openings, grilles etc. Service hatches. Panels, peepholes etc.		Damage. Dilapidation. Repair
.8	Fencing. Railings. Palings. Turnstiles. Admission gates	.058	Damage
.029	Ancillary parts, fixtures and fittings		Restoration. Repair
.2	Exterior fixtures and fittings. Posts, masts, their sockets etc.	.059	Collapse. Total loss
.7	Interior fixtures and fittings. Hooks, pegs, brackets etc.	.1	Strengthening. Reinforcement. Alteration. Conversion
		.2	Strengthening of foundations and/or structure (by structural means, injection etc. Underpinning)
69.03	SIZE, PERMANENCE, LOCATION AND SHAPE OF BUILDINGS	.22	Conversion. Structural alteration
		.25	Extensions to existing buildings or storeys. (Connected) annexes. Addition of storeys
.032	Size of buildings in general (large, medium, small)	.28	Life of buildings
	—69.053	.3	Displacement, moving, raising of complete buildings
.033	Dismantlable, transportable and temporary buildings. Inflatable, deflatable structures (pneumatic, pressurized or air structures)	.32	Demolition. Rubble
	—351.778.534	.35	—628.4.036
.034	Buildings related to water. Floating buildings. Submerged and partly submerged buildings	.38	Clearance of rubble or debris
.5	Underwater buildings	.4	Utilization of rubble or debris
.035.2	Buildings on slopes. Mountain and hillside buildings	.5	Reconstruction. Rebuilding (using some elements of the original building)
.4	Underground buildings. Subterranean buildings	.6	
.036	Buildings according to layout, ground plan	.63	
	69.036 ≈ 624.21.036	.64	
		.7	
69.04	GRAPHICAL AND ANALYTICAL STATICS FOR INVESTIGATION AND CALCULATION OF BUILDINGS. STRENGTH, STABILITY ETC.	69.07	STRUCTURAL ELEMENTS. LOAD-BEARING MEMBERS
	69.04 ≈ 624.04		69.07 ≈ 624.07
	See note at 69.01/.07		See note at 69.01/.07
69.05	SITE, ORGANIZATION AND PLANT. INDUSTRIALIZED BUILDING AND ERECTION. SITE TESTS. BUILDING FAILURES. BUILDING DURABILITY AND MAINTENANCE	Principal divisions	
		691	BUILDING MATERIALS. BUILDING COMPONENTS
.051	Selection and investigation of site. State of site at start of work		—624.01
	—624.131.31		691:620.1 Testing of building materials
.052	Access roads to site. Completed roads. Temporary roads		:699.8 Building materials with protective and special properties, e.g.
.053	Measurements, dimensions of buildings. Building height, width (frontage) and depth		:699.844 Sound-proofing materials. Acoustic insulating materials
	—69.032		691-4 State, condition, form of materials (from 62-4)
.054	Marking out and setting out of planned structures and traffic areas	.1	Materials of organic origin
.055	Arrangement and organization of site	.11	Wood. Timber. Wood products
.056	Preparation of parts for industrialized construction	.13	Cork. Cork substitutes
		.14	Paper. Pulp products
.057	Industrialization of construction. Procedures for erection of prefabricated parts and whole structures	.15	—676.28
		.16	Other fibrous vegetable substances (e.g. textiles, fabrics)
.1	Prefabrication of building parts on or near site. Field fabrication	.17	Bituminous materials. Asphalt, tar, pitch etc. Bituminous felt, board etc.
.2	Assembly on site		Macromolecular materials. Rubbers, plastics etc.

691.175	Plastics	691.6 (cont'd)	691.618.5 Pressed glass. Building, architectural glass. Glass bricks, tiles etc. (from 666.185)	
.18	691.175.5/8 ≈ 678.5/8		Metallic building materials	
.2	Materials of animal origin		—669, especially 669.018.29; 672.11; 682.6	
.21	Natural stones. Other mineral materials	.7	Cast iron	ral
	Natural stones (according to origin and composition)		Steel	
	691.21 ≈ 553.5, e.g.		Non-ferrous metals in general	
	691.212 Plutonic stones. Granite. Syenite	.713	Copper. Copper alloys. Bronzes. Brass.	
	(from 553.52)	.714	Gunmetal	
.214	Metamorphic stones. Schists etc.	.72	Lead	stry
	(from 553.54)	.73	Zinc	
.2	Slates (e.g. roof slates)	.74	Light metals (e.g. aluminium)	stricts
	(from 553.542)	.75	Simple units. Builders' hardware	s
.8	Marble	.77	—682.6; 683	
	(from 553.548)	.8	Prefabricated simple units	
.215	Sedimentary and carbonate stones. Limestone, sandstone etc.	.81	Building materials for strengthening and reinforcing in general	nic
	(from 553.55)	.87	—693.554; 693.564	
.22	Sand, gravel and similar aggregates	.88	Fixing accessories. Fasteners. Dowels. Nails.	nship
	691.223/.224 ≈ 553.623/.624		Bolts. Screws. Clips. Brackets. Others	
.27	Fibrous and foliate silicates		—621.88	ial
	691.27 ≈ 553.67			of
.3	Artificial stone. Concrete. Various agglomerates	693	BRICKLAYING AND RELATED BUILDING CRAFTS	
	—666.96/.97; 691.54		—666.9	
.31	Artificial stone. Reconstituted stone. Gypsum building products. Calcium silicate stone	.1	Masonry in natural stone. Rubble masonry, slightly or not dressed. Rough rubbles, erratics	ical
	—666.91		Stone cutting and dressing. Dimensions of stones. Face-work	
.32	Concrete. Concrete building elements	.12	Stone walling (Bond. Shape of stones. Bedding. Joints.) Random, random-coursed and regular work, set dry (dry stone walling) or in mortar	its
	—666.94; 666.97	.15	Masonry of treated material, stones, blocks etc.	
.322	Aggregates (including lightweight aggregates). Breeze. Clinker. Slag. Pumice. Concrete aggregates in general	.21	Masonry of dressed natural stones. Cut stone masonry. Ashlar masonry	
.327	Unreinforced concrete	.22	Bricklaying. Brick bonds. Mortar joints.	o
	Denote concrete building elements of particular form by -4 from 62-4	.24	Pointing	
.328	Reinforced concrete. Prestressed concrete. Reinforced concrete elements	.25	Masonry of loam bricks (air-dried), loam blocks, loam ashlar	
	—666.982	.27	Masonry of brickwork (burnt bricks)	
.5	Reinforced cement products. Asbestos cement products etc.	.29	Masonry of blocks, purpose-made bricks etc.	
.33	Concretes and artificial agglomerates with inorganic binders other than cement. Silicate concrete. Lime concrete. Xylolith. Others	.3	Masonry of prefabricated units in concrete (or similar artificial masses)	F
	—674.816	.5	Composite masonry. Masonry of various kinds of natural and/or artificial stones, blocks, units etc.	
.34	Concretes and artificial agglomerates with organic binders. Synthetic resin concretes. Plastic concretes	.54	Masonry of stabilized earth. Pisé-de-terre (rammed-earth construction). Cob	
.4	Earth. Cob. Clayware. Stoneware. Ceramic building materials	.542	Concrete construction work. Concreting. In-situ concrete. Mass concrete. Reinforced concrete. Prestressed concrete	
	—666.7	.4	—666.94; 666.97	
.41	Dried earth. Adobe. Mud. Pisé-de-terre. Cob (unburnt, puddled clay)	.546	Concreting technique in general. Plain concrete (mass concrete)	
.42	Heavy ceramics or clayware. Burnt clay. Ordinary and refractory bricks. Paving tiles. Roofing tiles	.1	Batching. Mixing. Proportioning of mix. Control of consistency	ld
.43	Glazed, porous or semi-porous ware. Salt-glazed ware. Stoneware. Faience. Terracotta. Whiteware (e.g. sanitary ware)	.2	Additions, admixtures. Air entrainment.	
.5	Binders. Bedding materials	.3	Waterproofers. Accelerators. Plasticizers	
.51	Limes	.4	Placing and compacting the concrete	
	—666.92	.5	Discontinuous or batch placing (e.g. by barrows or trucks)	
.53	Mortars in general	.7	Placing by chute, conveyor or similar devices	
.54	Cements. Pozzolan materials	.547	Placing by pumping, spraying, injecting or similar methods	e
	—666.944; 666.95; 691.3	.2	Compaction by vibration. Vibrated concrete (e.g. with external vibrators on formwork).	
.55	Plasters. Gypsum plasters. Lime plasters. Synthetic plasters. Others	.2	Pervibration, transvibration etc.	
	—666.91	.3	Ramming. Rodding. Other compaction methods	
.57	Paints. Distempers. Varnishes. Stains. Preservatives	.4	Finishing, screeding, floating (of concrete)	
	—667.6	.5	Curing the concrete (including steam curing), heating, cooling and other measures during setting and hardening	
.58	Bedding, filling and jointing materials. Levelling compounds. Mastics. Putties. Adhesives	.7	Vacuum treatment. Vacuum concrete	
.6	Glass. Window glass. Plate glass. Enamel etc.	.2		
	691.61/.62 ≈ 666.1/.2, e.g.			
	691.615 Sheet glass. Flat glass in general (from 666.15)			

693.547.3	Cold-weather concreting. Concrete construction in frost —624.139	693.814.3 .82	Tubular steel work Structural work in non-ferrous metals in general 693.82 ≈ 693.814
.4	Cooling of mass concrete		Structural work in light metals (e.g. aluminium)
.6	Hot-weather concreting. Wetting of surfaces during curing. Wet coverings	.827	Skeleton structures with panel infillings.
.7	Protection from vibration or other mechanical influences	.9	Constructions combining various materials.
.8	Removal or striking of formwork. Striking time. Cleaning of forms	.94	Composite construction
.548	Surface treatment of the concrete. Exposed concrete. Surface roughening, bush-hammering etc. Washing-out (exposed aggregate finish)	.95 .955 .956 .97	Timber-framed skeleton structures Concrete-framed skeleton structures With frame of reinforced concrete With frame of prestressed concrete
.55	Reinforced concrete construction —666.982	.972 .977	Skeleton structures of metal Steel-framed skeleton structures
.552	Batching. Mixing 693.552 ≈ 693.542	.98	Skeleton structures with frame of light metal Constructions combining various materials. Composite construction
.554	Reinforcement (steel)		
.556	Placing and compacting the concrete 693.556 ≈ 693.546	694	TIMBER CONSTRUCTION. CARPENTRY. JOINERY
.557	Curing the concrete (including steam curing), heating, cooling and other measures during setting and hardening 693.557 ≈ 693.547	.1 .12 .14	Timber construction in general. Carpentry. Carpenter's work Fixing materials. Fasteners Wood joints 694.14 ≈ 624.078.4
.558	Surface treatment of the concrete		Temporary timber construction. Sizing, hewing, assembling of parts
.56	Prestressed concrete construction	.3	Heavy timber construction. Sizing, hewing, assembling of parts for heavy load-bearing members, frameworks, girders, beams, trusses
.564	Prestressing reinforcement. Prestressed steel. Prestressing	.4	Light timber construction. Sizing, hewing, assembly of parts for light frameworks, walls, roofs, floors
.565	Tensioning. Pretensioning (methods and devices) 693.565:536.41 Pretensioning by thermal expansion 621.866 Pretensioning with jacks	.5	Joinery. Wood finishings, grounds, backings. Battens, fixings. Panelled work. Doors. Windows. Trim. Staircases. Boarded floors —674.21
.566	Placing and compacting the concrete 693.566 ≈ 693.546	.6	
.567	Curing the concrete (including steam curing), heating, cooling and other measures during setting and hardening 693.567 ≈ 693.547		
.568	Surface treatment of the concrete	696	EQUIPMENT, SERVICES, INSTALLATIONS IN BUILDINGS (SANITARY, GAS, STEAM, ELECTRICAL). PIPE FITTER. PLUMBER. METAL WORKER. DRAINLAYER. ELECTRICIAN. OTHER TRADES
.6	Plasterer's trade. Finishing work —666.9.91/.92		Pipe fitter's trade. Other metalwork trades —628.1 and references there
.61	Plastering		Water supply installations (including drinking water) —621.642/.646; 644.61
.611	Plasters according to their constituents	.1	Drainage above ground. Roof drainage. Gutters, rainwater pipes etc. Waste, soil pipes etc.
.612	Plasters with admixtures		Drainage below ground. Site drains. House drains. Local refuse disposal —628.242
.613	Preparation of surfaces to receive plaster. Plaster base, lathing etc.	.11	Layout of drainage systems. Depth. Alignment. Gradient. Size
.614	Application of plasters. Methods of application	.12	Drain pipes and fittings
.621	Interior plastering	.13	Drain laying. Construction of manholes (inspection chambers). Drainlayer's trade
.625	Exterior rendering. Mortar coats. Textured surfaces. Parging. Pargeting. Rough-cast finish. Spatterdash. Pebbledash Scraped finish	.135	Sewage disposal for isolated buildings. Sewage purification. Septic tanks —628.32
63	Stucco	.136	Soakaways (for surface water)
.64	Treatment of plastered surfaces (technical and artistic). Scagliola (imitation marble). Sgraffito (graffito, scratch work)	.138	Conservancy systems. Cesspools —628.42
65	Graining	.139	Solid refuse disposal. Incinerators for local use —628.542
66	Rejointing. Repointing	.14	Sanitary installations and fittings in buildings. Lavatory fittings —628.6 and references there; 644.68
69	Various special finishes and facings	.141	Water closets. Urinals. Bidets —628.425 and references there
.7	Floor tiling. Wall tiling. Paving. Paviour's trade. Asphalt work —666.96	.142 .143 .144	Sinks and accessories Washbasins Baths. Showers
73	Laying of jointless floorings (terrazzo, macadam etc.)		
.74	Laying of tiles, slabs, prefabricated mosaics etc. on ceilings, walls, sanitary installations, floors —666.268		
.75	Paving. Paviour's trade		
.78	Asphalting. Asphalter's trade		
.8	Structural work in steel and other metals		
.813	Structural ironwork		
.814	Structural steelwork		
.1	Various structural steel members.		
.2	Prestressed steel members		
	Connections in steelwork. Steel joints 693.814.2 ≈ 624.078.4		

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696.146	Special sanitary fittings for hospitals, dental surgeries etc. —615.478	697.27	Electric space heaters —621.365
.2	Gas installations. Gas fitter's trade. Gas service pipes, fittings. Gas metering —621.6.02; 621.643; 681.122; 683.8; 697.245	.273	Primarily radiant electric heaters. Electric fires
.3	Steam installations —621.18; 697.5	.275	Primarily convecting electric heaters. Electric radiators (filled)
.4	Hot water supply —644.62; 683.97; 697.3/.4	.278	Electric storage heaters
.42	Boiler plant and equipment	.3	Central heating in general (including combined hot water supply and space-heating systems) —696.4
.43	Hot water piping and connections. Sizes, layout, insulation etc.	.32	Boilerhouse or furnace-room plant. Fuel storage space
.45	Heat-emitting installations. Radiators, towel rails etc.	.325	Stoves
.46	Heat storage installations (e.g. hot water cylinders)	.326	Boilers (including combined hot water and central heating types)
.48	Systems and appliances for heating water	.328	Heat storage apparatus. Calorifiers, steam or hot water
.5	Pneumatic, compressed air and vacuum installations —621.5	.329	Solar heating devices. Other heat transfer and storage apparatus —662.997; 697.7
.6	Electrical installations. Electric wiring systems. Electrician's trade —621.3, especially 621.316.1	.33	Distribution of heating medium. Pipework (sizes, layout, insulation)
697	HEATING, VENTILATION AND AIR CONDITIONING OF BUILDINGS —628.8; 644.1; 662.6/.9; 683.9	.34	District heating (zonal heating). Heat distribution over a distance to several buildings or premises —697.384; 697.434; 697.444; 697.514
.1	Heating of buildings generally. Principles, requirements, calculations. External and internal influences —551.5; 612.5; 699.86	.347	Measurement, metering of heat consumption (by the various users). Control of heat consumption by use of calorifiers —681.125
.11	General principles. Properties of buildings from heating point of view (measurements, results). Temperature levels. Fuel consumption	.35	Heat-emitting apparatus. Radiators. Convector heaters. Unit heaters
.12	Temperature and air-change requirements with special reference to heat-loss calculation —628.87	.352	Types of radiator. Design, location and other factors influencing heating capacity
.13	External influences on heat loss from buildings	.353	Radiant and panel heaters. Design, location and other factors influencing heating capacity
.132	Exterior temperature, climate, season etc. (with reference to heat-loss calculation)	.355	Convectors, including grilles and casings
.133	Heat transmission losses. Influence of humidity and other factors	.356	Unit heaters
.134	Exposure to wind (especially as factor in heat-loss calculation)	.357	Heating coils. Gilled pipes
.135	Air infiltration (through windows, ventilation openings, doors etc.). Heat loss from draughts	.38	Heating by circulation of hot air or gases (not in direct contact with the air in the space to be heated). Primitive heating systems. Hypocausts. Flue gases
.137	Moisture, humidity factors in heat loss	.382	Stoves and furnaces for warm-air heating (non-ventilating), e.g. fan furnaces
.14	Internal influences on heat loss from buildings. Effects of layout, occupancy etc.	.384	Direct heating (zonal heating), by hot air or gases only —697.34
.2	Space heating by individual heat-generating appliances in rooms. Fires, stoves, panel heaters	.385	Heat-emitting apparatus designed for indirect hot air or gas circulation systems 697.385 ≈ 697.35
.24	Space heating by fuel-burning heaters	.4	Hot-water central heating. Central heating with other liquids, e.g. oil —696.4
.243	Solid fuel heaters	.43	Low-pressure hot-water heating systems
.3	Primarily radiant solid-fuel heaters. Open fires. Fireplaces, hearths, grates —683.93	.432	Boiler plant and equipment 697.432 ≈ 697.32
.5	Primarily convecting solid-fuel heaters. Solid-fuel stoves	.433	Piping and connections (sizes, layout, insulation etc.). Gravity circulation. Accelerated circulation
.244	Liquid-fuel heaters. Kerosine-fired (paraffin-fired) heaters etc.	.434	District heating (zonal heating), by low-pressure hot water only —697.34
.3	Primarily radiant liquid-fuel heaters	.435	Heat-emitting apparatus designed for low-pressure hot-water central heating 697.435 ≈ 697.35
.5	Primarily convecting liquid-fuel heaters	.44	High-pressure hot-water heating systems
.7	Combined radiant-convector liquid-fuel heaters	.442	Boiler plant and equipment 697.442 ≈ 697.32
.245	Gas-fired heaters. Gas fires	.443	Piping and connections (sizes, layout, insulation etc.)
.3	Primarily radiant gas fires (normally requiring flues)	.444	District heating (zonal heating), by high-pressure hot water only —697.34
.5	Primarily convecting gas-fired heaters	.445	Heat-emitting apparatus designed for high-pressure hot-water central heating 697.445 ≈ 697.35
.7	Combined radiant-convector gas-fired heaters (flueless). Gas panel heaters. Gas-fired radiators	.49	Use of other circulating liquids, e.g. oils
.246	Combined heating methods (e.g. coal-and-gas-fired heaters)		

697.5	Steam central heating (by live and exhaust steam)	697.956	Air circulation by heat sources in the room, e.g. fires, stoves
	—621.1, e.g. 621.186.8	.957	Movement of air flow
.51	Live-steam central heating generally. Principles. Economy. Design	.97	—628.854
.512	Boiler plant and equipment	.98	Temperature conditioning. Cooling and heating of air
	697.512 ≈ 697.32		Dust and fume removal (building aspects, installations)
.513	Piping and connections (sizes, layout, insulation etc.)		—628.511 and references there
.514	District heating (zonal heating), by live steam only	698	FINISHING AND DECORATING TRADES
	—697.34; 697.57	.1	Painting and decorating trades.
.515	Heat-emitting apparatus designed for live-steam central heating systems		Housepainting. Paperhanging. Others
.52	Vacuum steam-heating systems	.3	—667.64; 676.267
	697.52 ≈ 697.51		Glazing. Glazier's trade
.53	Low-pressure steam central heating systems	.7	—666.15/16; 686.6
	697.53 ≈ 697.51		Ancillary decorating trades. Soft furnishing and upholstery trades
.54	High-pressure steam central heating systems		—684.7
	—697.54 ≈ 697.51		698.7:645.1 Fitting of floor coverings.
.57	Heating by exhaust steam		Carpet laying. Linoleum laying
.7	Other methods of heating (e.g. solar heating)		:645.3 Hanging of curtains, blinds etc.
	—697.329		
.8	Chimneys. Flues	699.8	PROTECTION OF AND IN BUILDINGS.
	—624.971; 628.522; 662.922/923; 69.027.1		EMERGENCY MEASURES. PRECAUTIONS
.81	Flues (internal). Flue dimensions. Masonry and flue pipes	.81	Fire protection. Fireproofing of buildings.
.83	Interior chimneys		Firefighting installations and equipment
.84	Exterior chimneys Chimney stacks, pots etc.	.812	—614.84
.85	Free-standing chimney stacks. Large isolated chimney stacks (e.g. factory chimney stacks)		Fireproof construction of buildings. Use of fire-resistant materials. Fire-coats, protective paints
.87	Draught regulation in flues		—667.637.4:699.812
.88	Soot removal. Ash removal Chimney sweeping	.814	Design of buildings for fire prevention Fire doors. Baffles. Smoke outlets. Other design matters
.9	Ventilation. Air conditioning	.816	Firefighting installations in buildings. Built-in extinguishing systems
	—628.8	.82	Protection against moisture. Damp-proof and waterproof construction
.92	Ventilation proper. Introduction and extraction of air. Distribution of fresh air. Air inlets. Air outlets. Air ducts	.822	Damp-proof courses (against capillary moisture, rising damp)
.921	Introduction and extraction of air. Air inlets. Air outlets	.826	Waterproof structures. Waterproof doors and windows
.2	Natural ventilation (e.g. via windows, louvres, airbricks)	.828	Drying out of buildings
.4	Mechanical ventilation (exhaust and plenum systems)	.83	Protection against weathering, wind, storms.
.922	Distribution of fresh air. Air ducts and equipment (design and construction)	.84	Weather-proof construction
.93	Humidity control. Humidification. Dehumidification. Drying of air	.841	Protection against vibration and noise
.931	Humidity (influence, measurement, control)	.844	Against seismic effects, earth tremors.
.932	Humidification. Humidifiers. Direct humidifying systems		Earthquake-resistant construction
.933	Reduction of moisture content. Dehumidifiers		Against acoustic effects, noise.
.934	Drying of air		Sound-proofing. Sound insulation and absorption
.94	Air-conditioning units in general. Cleansing, washing and filtration of air	.85	—628.517.2 and references there
	—628.5, especially 628.511	.852	Civil defence construction
.942	Air filters (for removal of airborne particles). Dust filters etc.	.853	—355.58 and references there
.943	Odour removal. Deodorization of air (e.g. by absorption on carbon)	.86	Underground defence shelters
.945	Centrifugal collectors. Dynamic collectors	.87	—643.88
.946	Electric precipitation. Electrostatic air cleaners		Defence shelters above ground
	—621.359.4		Thermal insulation of buildings.
.947	Ozone generators. Ozonizers		Cold-resistant and heat-resistant construction. Expansion joints
.948	Ultraviolet-ray equipment		Protection against various toxic, noxious and biological effects. Against poisonous gases, fumes. Against dust. Against biodeterioration, microorganisms, fungi. Rot-proofing. Against pests, vermin, insects etc.
.95	Circulation and movement of air	.88	—62-784; 628.511 and references; 628.52
.952	Natural air circulation (e.g. by differential air temperature, by wind)	.885	Protection against various physical influences
.953	Air circulation by mechanical means. Fans	.887	Against light
	—621.5	.2	Against electrical and radioactive effects.
	697.953:621.634 Helical fans. Axial-flow fans	.3	Against X-rays
			Against lightning
			Against ionizing radiation. Radiation shielding (e.g. in atomic plant)

7 THE ARTS. RECREATION. ENTERTAINMENT. SPORT

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	7...A/Z Works of particular artists or practitioners as Table I(h); e.g. under 75	7.031.8	Pre-Columbian art (pre-Spanish art) of ancient Mexican, Central and South American civilizations	a
	7-05 Persons and personal characteristics in the arts etc. from Table I(k)	.83 .84	Pre-Aztec cultures (except Mayan) (e.g. Olmec, Teotihuacan)	
Special auxiliary subdivisions	Not applicable under 77, except for .04	.85 .86	Aztec art Mayan art	eral
7.01	Aesthetics. Philosophy. Taste. Theory of art in general	.87	Ancient Peruvian art (Inca, Tiahuanaco, Nazca etc.)	
.011	Design. Composition		Ancient Columbian and South Venezuelan art. Chibcha art	istry
.013	Harmony in general. Proportion. Form. Rhythm and line	.88	Art of other South American civilizations (Quimbaya etc.)	stricts
.014	The Orders	.032	Ancient civilizations of the Old World. Antiquity	's
.016	Profiles. Mouldings. Tracery Further subdivided under 72.014	.1 .11	Oriental. Asiatic Chinese (including Tibetan, Central Asian, Korean). Mongolian. Manchurian	inic
.017	Various optical effects		Japanese	hship
.2	Chiaroscuro. Light and shade	.12	Indian and south-east Asian. Sinhalese, art of Sri Lanka (Ceylon)	
.4	Colour. Colour harmony	.14	Ancient Egyptian	nal
.6	Surface effect	.2	Phoenician (Tyre, Sidon). Carthaginian.	is of
.9	Other optical effects. Perspective effect, illusion etc.	.3	Cyprian	
.02	Technique. Craftsmanship		West Asiatic (Mesopotamia. Iranian). Akkadian. Sumerian. Babylonian. Assyrian.	
.021	Working methods. Processes	.5	Ancient Persian. Syrian and Palestinian	
.2	Preliminary presentation. Sketches, models etc.	.6	Grecian. Ancient Greek	
.22	Two-dimensional: drawing	.62	Aegean: Bronze Age. Minoan, Cretan.	hical
.23	Three-dimensional: modelling, design		Helladic. Cycladic. Trojan. Mycenaean	
.4	Execution. Craftsmanship and machine manufacture	.63 .64	Hellenic Greek. Archaic, classical Greek etc. Hellenistic period. Pre-Roman and Roman	
.022	Tools. Equipment		Hellenistic	
.7	Special clothing —614.89; 687.15	.7 .76	Ancient Italian Etruscan	nits
.8	Accommodation. Workshops, studios. Open-air work	.77 .033/.035	Ancient Roman	
.023	Materials. Choice of materials Further subdivided under 76.023		<i>Intercalation of the place auxiliaries, Table I(e), is used in 7.033/.035 to achieve a geographical grouping of styles, e.g. 7.033.4(410.1)1 Anglo-Saxon art (early Romanesque in England)</i>	
.024	Accessories. Titles. Legends. Captions. Inscriptions. Mountings. Base pedestals. Frames		<i>Alternatively, the three points may be omitted and the final digits added directly to the base number, e.g. 7.033.41 Early Romanesque (in general) 7.034.5 High Renaissance (in general) In 7.036, the subdivisions are arranged mainly by direct decimal division, but if preferred, intercalation may be used there too (see note under 7.036)</i>	
.025	Damage. Destruction. Deterioration. Removal. Preservation. Protection etc.			
.1	Damage. Destruction			
.2	Deterioration. Deformation. Dilapidation. Decay. Neglect, disuse. Remains. Ruins. Fragments			F
.3	Care. Upkeep. Preservation. Conservation			
.4	Repair. Restoration. Renovation. Renewal. Cleaning. Other technical measures	.033	Mediaeval (Christian, Islamic)	
.7	Loss or unauthorized removal. Loss in transit, by theft etc.	.1 .2 .3 .4	Early Christian Byzantine Islamic Romanesque	
.8	Change of location. Exchange, transfer			
.026	Reproduction. Copying. Making of facsimiles, replicas, casts		Special subdivisions for 7.033.4	
.2	Models of existing works —7.021.2; 7.061	7.033 4...1 ...2 ...21 ...22 ...4	Early, First Romanesque Middle Romanesque Carolingian Ottonian Late Romanesque	d
.03	Periods and phases. Schools, styles, influences —Tables I(e); I(g)		Subdivision according to place	
.031	Prehistoric art. Primitive art (ancient and modern) —903/904	7.033.4(410.1) 1 2 4 (415) (430/499)	English Romanesque Anglo-Saxon Viking, Norse Norman art in England. Anglo-Norman Irish, Celtic Romanesque Various European Romanesque styles	
.1	Prehistoric art			
.2	Primitive art (ancient and modern)			
.3	Indigenous, aboriginal art Details by Table I(e) (4/9) or — 7.031.5/.88		Special auxiliary subdivision	
.4	Derivative art of white races (folk or peasant art)	7.033.5	Late Mediaeval, especially in western Europe. Gothic	
.5	Asian and Australasian primitive art		Special subdivisions for 7.033.5	
.6	African primitive art (aboriginal and folk)	7.033.5...1 ...2 ...3	Early, Transitional, Primary Gothic Middle, High, Secondary Gothic Late, Tertiary Gothic	
.7	American primitive art (aboriginal and folk), up to the present day			

7.033.5...4	Later Gothic (transitional to Renaissance)	7.036 (cont'd)	7.036"189" Modern art movements of the 1890s, fin-de-siècle
Subdivision according to place			Realistic trends. Objective realism.
7.033.5(410.1)	English Gothic	.1	Naturalism. Accurate, detached representation
1	Early English		Impressionist movements. Impressionism.
2	Decorated	.2	Luminism. Pleinairism
3	Perpendicular	.3	Functionalism. 'Fitness for purpose' etc.
4	Early Tudor	.4	Post-Impressionism. Neo-Impressionism. Fauvism etc.
	→7.034(410.1)4		Expressive monumentalism
(430/499)	Various European Gothic styles		Expressionist movement. Abstract art.
Special auxiliary subdivision			Cubism. Futurism. Dadaism. Surrealism.
7.034	Renaissance. Baroque. Rococo. Colonial	.5	Other post-Expressionist movements
Special subdivisions for 7.034		.7	Subjects for artistic representation.
7.034...3	Earliest phase of Renaissance		Iconography. Iconology
...4	Early Renaissance		Human form (face and body). Life studies
...5	High Renaissance	.04	→743
...6	Late Renaissance		The nude
...7	Baroque	.041	Portraits
...8	Rococo. Rocaille	.3	Scenes from life (court life, rustic life). Genre.
Subdivision according to place		.5	Narrative art
7.034(410)	Renaissance and colonial in Britain and British colonies	.7	Animal life. Fauna
	<i>or use place auxiliaries for individual colonies</i>	.042	Plant life. Flora. Trees, flowers, fruit etc.
(410.1)	English Renaissance	.043	Historical representations. Scenes of royalty (coronations etc.) State functions. Public ceremonies. Pageants etc. Military, martial subjects. War scenes. Battles. Reportage
4	Transitional. Tudor	.044	Symbols. Allegories. Emblems. Devices, heraldic designs. Monograms
5	Early Renaissance. Elizabethan, Jacobean		Epic, mythological, legendary and religious representations
6	Stuart		→246
7	Baroque influence. Queen Anne	.045	Nature representations. Scenery. Views.
8	Georgian	.046	Panoramas. Landscapes. Seascapes
(430/499)	Various European Renaissance styles	.047	Pattern and line ornament. Systems of ornamentation (coloured or not). Arabesques, grotesques etc. Non-representational, abstract designs
(450)	Italian Renaissance	.048	→7.036.7
4	Early Renaissance. Quattrocento (15th century Italian art)		Other subjects. Ideas, emotions. Satirical subjects. Caricatures. Grotesque figures
(7)	Renaissance styles in north America. Colonial styles	.049	Still life (nature morte)
(71)	In Canada: French Colonial	.6	Applications of art (in industry, trade, the home, everyday life). Industrial, commercial design etc.
(73)	In USA: English Colonial	.05	→658.512.2; 745/749
(93/94)	Colonial styles in Australasia (Australia, New Zealand etc.)		.05 is modified and further subdivided under various divisions of class 7. Specific applications of art and design may be brought together under 7.05, e.g.
Special auxiliary subdivision			7.05:62 Art and design in industry
7.035	Post-Renaissance. Revivals (classical, mediaeval etc.), chiefly 19th century.	.061	:64 Art and design in the house, home
	Revivalism. Classicism and the Romantic movement. Historicism. Eclecticism		Forgery. Counterfeiting. Fakes. Plagiarism
Special subdivisions for 7.035		.067	→343.533; 347.771/78; 7.026
7.035...1	Existing national and transitional styles		Various categories of art
...2	Classicism. Classic and archaic revival	.22	Esoteric, highbrow art. Art of and for the initiated few. Art for art's sake. 'Ivory tower' etc.
.. 3	Graeco-Roman etc.		Popular art. Art for the people, for the many
...4	Mediaevalism. Gothic revival. Other mediaeval influences	.26	Public, controlled, official art versus free, individual creation. Commissioned art. Art to order
...5	Renaissance, Baroque and Rococo revivals	.3	Utility aspect of art. Pure, academic versus applied art
.. 9	Eclecticism	.4	Debased, second-rate, vulgar, trashy productions
	Return to traditional (national, domestic) forms	.6	Occupations and activities associated with the arts and entertainment
Subdivision according to place		.07	Creative and interpretative occupations.
7.035(410)	Post-Renaissance in Britain	.071	Professional artists, performers, players
"17"	Earlier period (18th century)		→7.077
"18"	Later period (19th century). Victorian	.1	Creative artists. Professional artists (e.g. painters, sculptors, composers)
7.035(410)2	Classical revival in Britain. Adam style.	.2	Performing, interpretative artists. Performers, players. Directors. Conductors.
3	Regency. Neo-Greek. Italianate etc.	.3	Instrumentalists. Singers. Dancers. Actors
9	Mediaevalism in Britain Gothic revival. Pre-Raphaelitism	.4	Copyists. Restorers. Arrangers, adapters, transcribers. Translators
	Arts and Crafts movement. Art nouveau in Britain		Teachers. Instructors. Lecturers
(73)	In USA		
1	First National. Federal		
2	Second National. Classic revival		
Special auxiliary subdivisions			
7.036	Modern art movements (from late 19th century). Realism. Impressionism		
	Subsequent 20th century trends		
	<i>If a geographical or chronological grouping is required, the common auxiliaries of place and time may be intercalated after .036 in the subdivisions below, e.g.</i>		
	7.036(430)7 German Expressionism (and post-Expressionist movements)		

7.071.5	Training and education (including visits, excursions, study tours)	711.413	Gridiron plan. Grid development
	—371.233	.416	Linear development. Ribbon development
.072	Expertise. Historians. Scholars. Theorists.	.417	Garden cities. New towns. Satellite towns
	Critics. Reviewers. Judges. Scientific experts	.42	Kinds of town, locality, settlement
.073	Appreciation. Arts lovers. Sports lovers.		—911.375.3
	Enthusiasts, fans. Audiences. Spectators	.426	Towns, localities, settlements according to building materials
.074	Collecting and collectors	.427	Imaginary towns, localities, settlements. Ideal cities
	—371.387; 379.824		Localities according to size and status
.075	Commercial management. Agents. Dealers.	.43	Capital cities. Seats of government.
	Managers. Producers. Impresarios.	.432	Metropolises
	Promoters		—711.451
.077	Amateur participation and participants (creative, performing etc.)	.433	Cities. Major towns (population over 100 000)
.078	Patronage. Sponsorship. Encouragement	.434	Large towns. Boroughs (county, parliamentary, municipal boroughs)
	—35.078; 351.854		Small towns. Urban districts. Market towns
.08	Characteristic features, forms, combinations etc. (in art, entertainment and sport)	.435	Civil parishes
	<i>See specific uses at 78.08, 792.08, 794.08 and 796.08</i>	.436	Villages
		.437	Hamlets
		.438	Towns, localities, settlements according to function, chief industry etc. Centres of various industries
.091	Performance, presentation (in original medium)		—911.372.4
.1	Auditions. Hearing, testing of candidates or applicants	.451	Administrative centres. Regional capitals (county towns etc.)
.2	Rehearsals. Reading rehearsals. Movement rehearsals. Dress rehearsals	.452	—711.432
.3	Studio performances	.453	Trading, commercial towns. Business centres
.4	Festival performances	.454	Traffic, transport, communications centres
.5	Introduction of new works. First performances. First nights. Premières		Industrial towns. Producing, manufacturing centres
.6	Repertory performances. Repeat performances	.455	—625.521; 658.21
.092	Competitions. Contests. Records.	.47	Health, holiday, pleasure resorts. Spas.
	Championships	.48	Holiday camps
.094	Screen, film, motion picture presentation (e.g. of ballets, circuses, operas, theatre)	.5	Centres of learning. University towns
.096	Sound radio presentation (e.g. of concerts, films, drama, opera)	.51	Dormitory, residential towns
.097	Television presentation (e.g. of films, ballet, theatre)	.522	Units, areas within the town or settlement.
		.523	Zones. Districts. Quarters. Localities
		.55	Zoning in general (especially legal aspects and ordinances)
Principal divisions			Civic areas, wards
	PHYSICAL PLANNING. REGIONAL, TOWN AND COUNTRY PLANNING. LANDSCAPES, PARKS, GARDENS		Central areas. Town centres, nuclei
	—911.37		Units according to function. Administrative districts. Business districts. Transport, communications centres. Industrial districts.
			Others
			—911.375.4
			711.55 = 711.45
711	PRINCIPLES AND PRACTICE OF PHYSICAL PLANNING. REGIONAL, TOWN AND COUNTRY PLANNING	.56	Localities with religious purpose. Cathedral closes. Church precincts etc.
.1	General principles and practice. Land development. Plans	.57	Intellectual, educational localities. Centres of learning. Libraries, museums, galleries.
.11	Preliminary phases		Schools, colleges, universities. Exhibition, exposition districts
.12	Kinds of development	.58	—371.61
.121	Unplanned development		Community, neighbourhood units. Residential areas
.122	Planned development (including plans)	.6	Arrangements of buildings in towns. Site planning. Grouping
.13	Population: movement, distribution, densities	.61	Squares. Other open spaces
	—312		—625.712.4; 712.25
.14	Land use	.62	Arrangement of buildings
	—332.3	.63	Apportionment, site division
.142	Land classification. Evaluation of soil quality etc.	.64	Alignment. Frontages. Building lines. Spacing.
.143	Land management. Economic use of land		Density
.16	Planning programme and progress	.65	Height of buildings. Skylines
.2	Regional planning	.68	Small, incidental structures. Town furnishings.
.21	Planning on a supranational scale		Street furniture
.22	Planning on a federal, union scale		—625.748; 725.94
.24	Planning on a national, state scale	.7	Traffic routes (layout, planning)
.25	Planning on a provincial, county scale	.73	Highways. Roads, streets
.27	Planning on a district, local scale		—625.77.8
.28	Planning for townships, parishes	.75	Railways
.3	Country planning. Rural development	.76	—625.1
.4	Town planning. Urban development.		Canals. Waterways
	Built-up areas. Conurbations. Towns.	.77	—626/627
	Villages. Settlements		Airways
.41	Forms, shapes of built-up areas or urban units	.8	—625.717
.412	Radiating. Concentric		Public utilities (distribution, supply lines)

712	PLANNING OF LANDSCAPE (NATURAL AND DESIGNED). PARKS. GARDENS —630*27; 635	72.011.72	Open above, unroofed. Courtyards. Atria. Patios. Areas. Lightwells. Others
.2	The landscape pattern in general. Reserves. Agricultural land. Parks. Open spaces. Gardens. Grounds —625.712.5	.75	Open at side. Covered spaces and ways. Verandahs. Loggias. Terrace walks. Arcades. Cloisters. Open porches. Porticos —625.712.32
.23	National parks, reserves (including tree plantations) —502.3/7	.8	Interiors. Enclosed spaces and parts. Halls, galleries, corridors etc. Disposition, dimensional requirements
.24	Agricultural land (as part of landscape pattern), e.g. hedged land, strip cultivation, terraced development	.9	Space for equipment, furniture, storage units. Disposition, dimensional requirements
.25	Open spaces. Unbuilt areas (in or near towns or villages). Commons. Parks. Public gardens. Squares as gardens. Playing fields. Playgrounds. Recreation and sports grounds —371.61; 625.712.4; 711.61; 791.7	.013	Proportion. Principles of unity, order, symmetry, variety, monotony. Harmonic systems. Laws of geometric proportion. Dimensional coordination. Modular coordination
.26	Private grounds, parks. Enclosed gardens. Estates	.014	The Orders of classical architecture
.27	Market gardens. Nursery gardens. Orchards. Fruit and vegetable gardens. Kitchen gardens —635.1/8	.1	Modules. Intercolumniation
.3	Landscape gardening in general (planning, layout, design, execution)	.3	Tuscan Order
.4	Planting design. Vegetation, plant forms (arrangement, planting)	.4	Doric Order
.5	Water features. Ponds, streams, fountains, waterfalls	.5	Ionic Order
.6	Structural features in general <i>Denote particular features by :624..., :69..., :72...</i>	.6	Corinthian Order
.7	Garden ornaments 712.7:681.111 Sundials as garden ornaments	.016	Profiles. Mouldings. Tracery effects
718	CEMETERIES. GRAVEYARDS. CREMATORIALS. OTHER PLACES FOR DISPOSAL OF THE DEAD (PLANNING, DESIGN, UPKEEP ETC.)	.2	Terminal, skyline features or embellishments. Finials. Pinnacles. Pendants. Bosses etc.
719	PRESERVATION OF RURAL AND URBAN AMENITIES GENERALLY 719:061.2 National trusts and similar movements: organization etc. :502 Nature preservation: nature and wildlife protection	.4	Motifs. Enrichment by motifs, e.g. from nature. Foliage motifs etc.
72	ARCHITECTURE —624/628; 69	.017	Optical effects. Light and shade. Colour. Texture. Perspective effect, illusions etc.
Special auxiliary subdivisions		.02	Technique. Working methods. Drawings, models, accessories. Materials available. Preservation, repair. Conversion
72.01	Aesthetics and theory of architecture. Principles of design, proportion, optical effect	.025	Amenities: damage, deterioration, removal etc. Preservation, protection of amenities
.011	Design. Project. Plan. Disposition. Space division and relationships —658.233	.03	Periods and phases of architecture. Schools, styles, influences <i>Details from 7.03</i>
.1	Project. Plan. Accommodation requirements. Choice of site. Conditions imposed	.04	Architectural details and finishes. Decoration. Ornament <i>Divide by direct addition of other .0 auxiliaries, and by :6/7, e.g.</i>
.2	Space division. Layout. Plans. Number of floors (storeys)	.05	72.04:694 Timber details, finishes etc. 72.04.017 Optical effects of details and decoration (light and shade, colour, texture etc.)
.26	Number of floors (storeys), up to nine <i>Subdivide according to number of floors, e.g.</i> 72.011.261 With one floor. Single-storey buildings	.051	Parts, spaces and rooms planned for specific uses —643.3/5
.27	High-rise buildings (ten or more storeys). Skyscrapers. Point blocks	.052	General space and access considerations. External communication and approach. Enclosure, security, protection. Approaches. Setting-down space. Loading and unloading space. Parking and garage space
.3	Plan elements. Axis, direction, plane etc.	.053	Entrance and circulation space. Internal access and communication. Entrances. Exits. Concourses. Waiting rooms. Corridors, passages etc. Stairways. Escalators. Lift-wells
.32	Basic forms, e.g. circular	.054	Assembly space generally. Halls, auditoriums (as parts of buildings)
.4	Relationship of parts to whole. Main part, wings, outbuildings (in relation to whole)	.055	Business, administrative, instructional spaces. Office space. Storage space
.5	Relationship of exterior to interior. Interaxial divisions at points of support. Openings. Fenestration. Bay divisions	.056	725.13.054 Council chambers 727.1.054 School classrooms
.6	Exteriors. Façades. Forms, parts, elevations —69.022.3; 711.64	.057	Parts, spaces specific to particular kinds of building. Spaces for isolation, seclusion, privacy etc.
.7	Semi-enclosed spaces. Open-air parts (unroofed or open at side)	.058	Kitchen, catering space. Associated domestic service space. Dining rooms, canteens etc. (as parts of buildings)
		.059	Domestic living and sleeping space (in private buildings). Staff quarters (in public buildings). Ancillary spaces, annexes etc. Laundry-handling space. Fuel stores (e.g. coal bunkers). Spaces and rooms for animals —631.2

Principal divisions

721	BUILDINGS GENERALLY. PROGRAMMING. DESIGN. PARTS FOR SPECIFIC USES. ROOMS	725.382	Service stations, repair shops. Service depots, inspection pits etc. —629.119; 656.062	
		.383	Cleaning, washing installations. Standings	
		.384	Filling stations —629.119.5; 656.065.3	
725	PUBLIC, CIVIL, COMMERCIAL, INDUSTRIAL BUILDINGS. SECULAR ARCHITECTURE GENERALLY	.386	Bus garages. Tram depots	
	—658.2	.388	Coach and bus stations, terminals	
.1	Civic buildings. Legislative buildings. Public service buildings. Public utility buildings	.39	Airport buildings and structures —629.7.08; 656.71	ral
.11	Legislative buildings (national, international). Buildings of parliament, congress etc.	.391	Hangars. Aircraft repair sheds	
.12	National administrative buildings. National government buildings. Ministry buildings. Buildings for foreign representatives	.393	Mooring and supporting structures for airships, missiles	stry
.121	Ministry buildings. Government office buildings	.394	Air traffic control structures (e.g. for radar)	istricts
.125	Embassies	.398	Air passenger and freight buildings	
.127	Consulates	.4	Industrial buildings. Factories, mills, works, yards etc. —66.013	s
.13	Provincial and municipal administrative buildings. Regional and local government buildings. Civic centres. County, city, town halls. Others	.5	Health and welfare buildings	nic
		.51	Hospitals. Health centres. Clinics. Nursing homes. Infirmarys. Surgeries. Dispensaries	nship
		.53	Sanatoriums	
.14	Revenue offices. Customs and excise buildings. Mints	.54	Homes for the mentally deficient, handicapped, subnormal	ial of
.15	Judicative buildings. Law courts. Tribunal buildings	.55	Homes for the physically handicapped, disabled, crippled. Rehabilitation centres	
.16	Post, telegraph and telephone buildings	.56	Homes for the indigent. Public assistance institutions. Almshouses. Workhouses	
.17	Royal and presidential palaces. Official residences	.57	Homes for the aged. Old people's homes	
.18	Military buildings. Police buildings. Barracks. Fortresses. Detention buildings	.573	Child and infant welfare buildings —362.7; 373.22	ical
.19	Various civic and public service buildings	.578	Day nurseries. Crèches. Kindergartens	
.191	Fire stations. Rescue stations	.59	Homes for children, infants, foundlings.	
.192	Mortuaries. Morgues		Foundling hospitals. Orphanages	
.193	Waterworks. Water supply buildings and structures	.6	Veterinary hospitals, clinics, dispensaries.	
	—628.1 and references there	.7	Animal homes	nts
.194	Public health and sanitary buildings and structures. Public lavatories. Disinfecting, sterilizing, cleansing stations. Public washhouses	.71	Prisons. Jails (gaols). Penitentiaries. Reformatories	
	—628.425 and references; 648.1	.73	Public refreshment buildings. Batha. Spa buildings. Park buildings	
.195	Public depositories, depots	.74	Restaurants. Cafes. Licensed premises.	
.2	Commercial, business buildings. Shops. Offices etc.	.75	Canteens	o
.21	Shops. Stores. Similar trade premises	.76	Public bath buildings (except swimming baths)	
	—625.748.2		Swimming baths	
.22	Buildings partly for trade and partly residential. Shops with offices or flats above.		Spa buildings. Other health and holiday resort buildings. Seaside, pier buildings	
	Buildings for mixed use	.8	Park or garden buildings and structures.	
.23	Office buildings generally. Office blocks	.81	Bandstands. Pavilions. Follies. Garden 'temples', 'pagodas'. Winter-gardens. Palm houses etc.	F
.24	Bank buildings	.82	Public entertainment and recreation buildings. Halls. Theatres. Stadiums	
.25	Buildings for stock exchanges (bourses), chambers of commerce etc.	.821	Buildings designed with acoustic emphasis	
.26	Covered markets. Shopping arcades, precincts. Bazaars	.822	Concert buildings. Concert halls etc.	
	—625.712.32	.823	Buildings designed with visual emphasis.	
.27	Open markets	.824	Theatres, cinemas etc.	
.3	Buildings for transport, traffic, storage	.825	Opera houses	
	—625.1	.826	Theatres. Playhouses. Open-air theatres	
.31	Railway stations. Passenger stations.	.83	Cabarets. Dance halls. Music halls etc	
	Underground stations	.84	Cinemas. Film and television theatres	
.32	Freight, goods stations	.85	Buildings for panoramas, dioramas	
.33	Other railway buildings. Signal boxes. Railway repair shops, sheds etc.	.86	Stadiums, amphitheatres, hippodromes and similar buildings	id
.34	Marine, coastal, waterside buildings and structures. Port, harbour structures	.87	Assembly buildings. Public halls for meetings, conferences, congresses, lectures etc.	
.35	Storage buildings. Warehouses. Depots.		Buildings for indoor games and amusements.	
	Cold-storage buildings. Ice-houses	.88	Billiard saloons. Bowling alleys. Amusement arcades	e
	—621.796 and references; 625.712.61; 631.24; 631.563; 664.724; 664.8.037	.89	Buildings, halls for physical recreation and training. Gymnasiums. Covered courts	
.36	Silos. Grain elevators	.891	Rinks, especially ice rinks	
	—631.24; 631.563		Water sport buildings. Water sport structures. Yachthouses. Boathouses. Ramps, slips etc.	
.38	Garages. Vehicle service stations. Coach, bus stations		Riding school buildings and structures	
	—625.748.28; 625.748.54		Ancillary buildings and structures for sport.	
.381	Garages. Buildings and facilities for parking vehicles (generally)		Pavilions, shelters etc.	
			Buildings and structures for shooting and archery ranges. Pavilions, butts etc.	

725.892	Building and structures for wheel racing and animal racing. Race track structures	727.5	Buildings of scientific and learned societies. Buildings of technical institutions etc.
.893	Buildings and structures for outdoor games (ball games) and athletics. Sports pavilions		Research institutes. Laboratories.
	725.893:796.3 For ball games. Football, tennis, cricket pavilions etc.	.6	Experimental stations
.91	Exhibition buildings, pavilions, halls etc.		Zoological and botanic garden buildings.
.94	Monuments. Memorials. Street furniture. Various free-standing structures (as architectural features). Arches. Columns. Obelisks. Towers. Crosses. Others	.7	Animal houses. Plant houses. Aquarium and herbarium buildings
	—625.7, esp. 625.748; 628.971; 711.68; 726.825	.8	Museums. Art galleries. Museum architecture generally
.95	Bridges. Viaducts. Flyovers. Tunnels. Underpasses. Other structures associated with traffic	.912	Documentation, library and archive buildings.
	—623.1; 624.2/8; 625.712.35/37	.913	Record office buildings. Patent office buildings
.96	City, town gateways. City walls. Moats etc.	.915	Astronomical observatories
	—625.712.31		—520.1
726	RELIGIOUS, ECCLESIASTICAL ARCHITECTURE. SACRED AND FUNERARY BUILDINGS	.98	Planetariums
.1	Temples. Pagodas. Sanctuaries. Shrines (non-Christian)	728	—520.98; 681.782.7
.2	Mosques	.1	Meteorological stations. Seismometric stations. Other geophysical observatories or stations
.3	Synagogues. Jewish temples		—550.34.034; 551.501.9
.5	Christian church architecture (generally)		Film studio buildings
.52	Chapels		DOMESTIC ARCHITECTURE. HOUSING. RESIDENTIAL BUILDINGS
.54	Churches		Housing and dwellings generally (architectural aspects)
	<i>Denote denominations by :28...</i>		—332; 347.238; 347.254; 351.778.5; 643
.6	Cathedrals	.2	728.1(1-21) Urban housing. Dwellings in towns
.7	Monastic buildings. Religious houses		(1-22) Rural housing. Dwellings in the country
.71	Christian monasteries, abbeys, convents	.22	Multi-family dwellings. Blocks of flats, maisonnettes etc.
.76	Hermitages	.222	Blocks of flats (tenements, service flats etc.).
.77	Non-Christian religious houses, monasteries etc.	.224	Apartment blocks
.8	Funerary architecture. Sepulchral monuments, memorials etc.	.3	Tenement blocks. Low-rent flats
	—718; 903.5	.31	Smaller blocks (with less than ten flats)
.81	Funerary, cemetery, mortuary chapels	.34	Single-family dwellings. Urban houses.
.82	Sepulchral monuments. Tombs. Memorials.	.37	Bungalows. Semi-bungalows
	Graves	.38	Terraced houses (town houses)
.821	Tombs. Sepulchres. Crypts. Vaults	.4	Semi-detached houses
.822	Mausoleums		Detached houses (fully detached)
.823	Ossuaries. Charnel-houses. Towers of silence		Bungalows. Semi-bungalows
.825	Memorial features. Gravestones, crosses, slabs	.5	Residential buildings of firms and other organizations. Halls of residence. Club buildings. Residential hostels
	—725.94	.51	Hotels. Guesthouses. Travellers' inns, hostels
.827	Rock tombs		—379.831; 64.024
.829	Sarcophagi	.53	Hotels (town hotels). Luxury, private, commercial hotels etc.
.83	Crematoriums		Country inns, guesthouses. Travellers' rest houses. Coaching inns
	—718	.531	Caravanserais, khans
.84	Mass burial features. Grave mounds, caves etc. Catacombs	.536	Motels (hotels with garage and overnight facilities)
.85	Pyramids and similar monuments	.537	Botels (hotels with mooring and overnight facilities)
.9	Other religious buildings and structures. Parsonages, vicarages etc.	.54	Youth hostels
95	Pilgrimage shrines. Calvaries. Isolated crosses	.55	Common lodging houses. Doss-houses
		.6	Rural domestic architecture. Smaller rural dwellings. Cottages. Farmhouses and dependencies
727	BUILDINGS FOR EDUCATIONAL, SCIENTIFIC, CULTURAL PURPOSES	.7	Occasional and mobile dwellings. Holiday cabins, huts, lodges, chalets etc.
.1	School buildings. School architecture	.76	Wheeled dwellings. Mobile homes. Caravans
.11	Types of school, especially day schools. Nursery schools. Infants' schools. Primary and secondary schools. Open-air schools	.77	—629.1-43; 629.114...
.12	Boarding schools		Floating dwellings (barge, pontoon etc.).
.14	Special schools for the physically handicapped, blind, deaf mutes etc.	.8	Houseboats
.15	Special schools for the mentally handicapped. Schools for the educationally subnormal (ESN)	.81	Isolated large domestic buildings. Castles.
.3	Universities. University colleges. Colleges of advanced technology	.83	Stately homes. Country houses
.4	Vocational and specialist training schools, colleges. Technical and professional academies, conservatoires etc.	.9	Castles, fortified or semi-fortified
		.94	—623.1
			Manor houses
			Outbuildings. Sheds. Other domestic dependencies
			Outbuildings for keeping and storing tools, produce, vehicles. Toolsheds. Domestic garages etc.

728.96	Outbuildings for animals. Stables. Pigeonhouses. Kennels. Others —631.22	739.2	Jewellery (metalworking aspects) —736.2	
.98	Glasshouses. Greenhouses. Hothouses. Conservatories. Verandahs. Others —631.23; 631.344; 631.544	.4	Artistic ironwork. Artistic locksmith's work. Decoratively worked ferrous metal objects, forged, beaten and cast —672.13; 683.3	a.
.991	Summerhouses. Gazebos. Garden shelters	.5	Artistic work in various other metals (bronze, copper, tin etc.)	eral
73	PLASTIC ARTS. SCULPTURE. NUMISMATICS. METAL ARTS	.7	Artistic armoury, gunsmithing, weaponsmithing —623.4	
Special auxiliary subdivisions				
73.02	Technique of plastic arts. Craftsmanship <i>Details from 7.02 (with addition of .027), e.g.</i>	74	DRAWING. DESIGN. APPLIED ARTS AND CRAFTS	istry
	73.022 Tools. Equipment. Chisels etc. Machines and accessories for shaping	741/744	DRAWING	stricts
	.023 Materials. Wood. Woodcarving. Stone, e.g. marble. Metal, e.g. bronze. Natural plastic materials (clay, plaster). Others	741	Drawing in general	s
	.025 Damage. Preservation. Conservation. Cleaning. Restoration	Special auxiliary subdivision		
	.026 Copying. Facsimiles. Replicas. Casts and casting	741.02	Drawing technique. Working methods Drawing equipment. Drawing materials <i>Details from 7.02</i> —686.863.3; 686.88	mic
.027	Kinds of plastic art form. Methods of sculptural representation. In the round (statues, busts etc.). Reliefs (friezes, medallions etc.)	Principal divisions		
.03	Periods and phases of plastic arts. Schools, styles, influences <i>Details from 7.03</i>	741.5	Caricature. Cartoons. Satirical and humorous drawings 741.5:32 Political cartoons	ial of
.04	Subjects for plastic or sculptural representation. Iconography. Iconology <i>Details from 7.04</i>	.7	Silhouettes. Scissor-cuts	
Principal divisions		742	Perspective in drawing	
730	SCULPTURE IN GENERAL. STATUARY	.4	Aerial perspective. Bird's-eye view	
736	GLYPTICS. SIGILLOGRAPHY	.5	Shadow delineation. Perspective projection of shadows. Sciagraphy —514.182.3	hical
.2	Glyptography. Glyptics. Lapidary work. Engraving of gems and semi-precious stones. Cameos. Inscriptions —739.2	743	Anatomical drawing —611; 7.041	
.3	Sigillography. Sphragistics. Seals. Signets. Stamps. Dies —686.867.6; 929.6	744	Linear and geometric drawing	nits
737	NUMISMATICS	.2	Drawing office layout: construction, division Arrangement of drawing boards, tables. Lighting	
.1	Coins	.3	Drawing equipment (furniture, instruments, materials)	
.11	Coins according to issuing authority (royal, state, provincial etc.)	.32	Furniture. Drawing boards. Drawing tables.	o
.12	Coins according to material 737.121/.128 ≈ 669.1/.8, e.g. 737.122.1 Gold coins (from 669.21)	.34	Frames, stands, drafting machines	
.129	Non-metallic coins	.36	Drawing instruments. Rules, straightedges. Set squares. T-squares. Compasses. Dividers —667.649.6; 686.8	
.2	Medals. Medallions	.4	Drawing materials —667.4; 676.237	
738	CERAMIC ARTS. POTTERY	.42	Drawing methods, rules, conventions	
.1	Porcelain	.43	Kinds of drawing. Technical drawings and diagrams. Charts. Graphs. Others	F
.2	Majolica	.44	Execution, technique of drawing. Thickness of stroke or line. Use of different strokes. Use of colour. Dimensioning, lettering, titling etc.	
.3	Faience (decorated earthenware). Stoneware.	.5	Diagrams, directions, instructions for assembling, mounting, operating	
.4	Grès	.8	Reproduction, duplicating of drawings. Blueprints etc.	
.5	Enamel (vitreous enamel). Cloisonné. Enamel ornaments	.9	Storage, preservation and protection of drawings etc.	
.6	Mosaics		Ornamental, heraldic and display lettering.	
.8	Terracotta		Signwriting (e.g. posters, shop signs, inn signs) —667.649.6; 766	ld
.8	Various ceramic objects. Decorative tiles. Tanagra statuettes. Others	745/749	INDUSTRIAL AND DOMESTIC ARTS AND CRAFTS. APPLIED ARTS	
739	METAL ARTS. CHASED, CAST, BEATEN, EMBOSSÉ, REPOUSSÉ, WROUGHT METAL OBJECTS		<i>Class under 745/749 information about the design, decoration and ornamentation of all kinds of object.</i> <i>Denote particular objects by colon, e.g.</i> 745.51:645.45 Cupboards, wardrobes, shelves as joiner's art —684.45	e
	—669.21/.23; 682; 671 Goldsmith's and silversmith's art	745	Decorative handicrafts	
		.5	Handicrafts according to material	
		.51	Artistic woodwork (joinery, marquetry etc.) —674; 749.1	

- 745.52 Artistic textile work. Decorative fabrics. Rugs, tapestries etc. Printed and painted fabrics. Batik. Passementerie, decorative edging. Gimping, galloon etc.
—677; 684.75
- .53 Artistic leather work
—675
- .54 Artistic paper work. Papercraft. Decorative papers (e.g. wallpaper)
—676
- .55 Artistic objects of ivory, horn, shell etc.
- .9 Floral arts. Flower arrangement and compositions
- .92 Flower arrangement for vase or bowl display
- .93 Flower arrangement and floral decoration without containers
- .94 Dressing and flat display of flowers, dried seeds etc. (e.g. in pictures and albums)
- 746 **Fancy work. Art needlework**
- .1 Weaving
—677.024
- .2 Lacemaking. Lace. Tatting. Filet. Tulle
- .21 Lacemaking
—677.026.52; 677.076.52
- .22 Point lace. Tenerife lace. Tatting
- .25 Braided, plaited, knotted work. Fringes (macramé), tassels, braids, pompons
—677.026.73; 677.076.73
- .26 Filet. Netting. Mesh. Filet lace. Embroidered net
- .28 Tulle
- .3 Embroidery
—677.026.62; 677.076.62
- .31 Counted-thread methods
- .32 Drawn-thread work
- .33 Whitework methods
- .34 Coloured embroidery
- .35 Embroidered pleating (smock-work)
- .36 Quilting. Marseilles embroidery
- .4 Tailoring. Dressmaking. Sewing. Knitting. Crochet
—687
- .5 Beadwork (pearls etc.)
- .6 Coarse fibre work. Bast, raffia
- .7 Wickerwork. Basketwork. Cane weaving
- 747 **Interior decoration**
—159.937.51; 535.6; 698
747:643.53 Decoration of living and reception rooms
:725.71 Decoration of restaurants, cafes, canteens etc.
- .5 Window dressing
- 748 **Vitreous arts. Artistic glass and crystal ware**
—666.17.2; 698.3; 75.023
—684.4.03; 745.51
- 749 1 **Artistic furniture (antique and modern)**
—684.4.03; 745.51
- .2 **Artistic heating and lighting devices**
- 75 **PAINTING**
—535.6-2
75A/Z Works of named painters, e.g.
75Rubens Works of Rubens
- Special auxiliary subdivisions**
- 75.01 Aesthetics. Philosophy. Taste. Theory of painting in general
Details from 7.01
- .02 Technique. Craftsmanship
Details from 7.02, e.g.
75.021 Working methods in painting.
Execution. Painting processes.
Preparation of ground. Laying out.
Painting technique. Finishing processes (fixing, varnishing etc.)
.022 Painting tools, equipment.
Brushes. Spatulas (palette-knives). Palettes. Paintboxes. Others
.023 Materials for painting. Support (e.g. canvas). Pigments, paints, colours. Others
- 75 (cont'd)
- .03
- .04
- .05
- Principal division**
- 76 **GRAPHIC ARTS. GRAPHICS**
—655; 681.6
- Special auxiliary subdivisions**
- 76.023 Materials for graphic arts
—761/763
- .1 Wood
- .2 Stone
- .3 Metal
- Principal divisions**
- 761 Relief techniques. Woodcut. Metal-cut
- 762 Intaglio techniques. Engraving (copper, steel plate). Dry point. Mezzotint. Etching. Aquatint
- 763 Planographic techniques. Lithography (autolithography)
- 766 Applied graphic arts. Commercial graphics
766:659.133.1 Poster design. Posters as graphic art
—744.9
- 769 Collections of graphics, prints
- 77 **PHOTOGRAPHY AND SIMILAR PROCESSES**
—528.7; 661.14;
535.24; 681.7;
535.6; 725.824;
541.14; 791.43/.45
541.18;
- Special auxiliary subdivisions**
The special auxiliaries listed under 7 are not applicable in 77, except for .04
- 77-1/-5 Characteristics of photographic machinery, equipment etc.
77-1/-5 ≈ 62-1/-5
77-7/-8 ≈ 62-7/-8
- 77.01 **Theory, principles and nature of photographic phenomena**
Deleterious influences and defects generally
—77.069
- .019
- .02 **Photographic operations. Manufacture. Exposure. Processing. Storage**
—771
- .021 Manufacture of light-sensitive, photosensitive materials. Treatment prior to exposure
Manufacture of light-sensitive materials. Emulsions, additions etc.
.11 Manufacture of emulsions and light-sensitive mixtures
.12 Special emulsions and mixtures of emulsions. Emulsions without vehicle. Fine-grain emulsions. Emulsions for reversal processing. Others
—771.531
- .13 Special additions to emulsions and light-sensitive mixtures (e.g. sensitizers, hardening agents)
—771.534.21; 771.534.3; 773.5
- .14 Melting before coating (second melting)
- .15 Application of the sensitive mixture to the support
—77.021.5
- .16 Drying, including paper
- .17 Cutting, perforating, identification etc.
77.021.17:621.96 Film perforating machines
- .18 Packing and confection (into spools, film-packs etc.)

77.021.3	Application by the user (with ready-made, manufactured mixtures). Coating by hand	77.023.74	Other work on the developed image.
.5	Types of coating on sensitive materials		Intensification. Reduction. Bleaching. Toning.
.51	Substrate. Underlayers	.8	Subsequent reversal. Others
.53	Sensitive coatings	.024	Removal of the fixing salts. Washing. Drying
.54	Intermediate coatings. Separating layers		Finishing of negatives and prints
.55	Protective coatings. Anti-abrasion coatings.	.1	—771.45
	Anti-static coatings	.2	Retouching
.56	Light-filter coatings	.4	Tinting. Hand colouring
	—771.534.26	.48	Mounting. Pasting up
.57	Stripping coatings	.7	Production of photomontages
	—771.526	.9	Glazing
.58	Backing layers		Embossing. Producing relief effects in the print
.6	Coatings of non-sensitive materials (e.g. for image transfer)	.025	Preservation. Storage. Filing. Display
.022	Operations associated with exposure	.027	—771.46
	—771.21.44		Recovery, recuperation, re-utilization of photographic materials. Regeneration of baths, solutions. Recovery of residues, of silver
.1	Choice and arrangement of model and subject. Photographic perspective. Pictorial appreciation	.03	Documentary photography. Photographic records and their interpretation
.4	Choice and arrangement of lighting. Lamps, screens etc.	.031	Photographs of natural objects, visible and stationary
.5	Determination of exposure. Theory of exposure measurement	.033	Photographs of artificial, man-made objects. Works of art, buildings, machinery etc.
	—771.376		77.033:72 Architectural photographs
.6	Adjustment, setting of the shutter	.034	Action photography. Photographs of movement, of objects in motion
.7	Adjustment of the aperture		77.034:796 Sports photography
.8	Adjustment of distance setting. Depth of field (focus), theory and calculation	.035	Photographs of microscopic objects.
	—681.7.013		Photomicrographs
.023	Processing work. Operations following exposure (with consideration of materials used)	.038	—778.315
	—771.4; 771.7	.039	Photographs of scientific phenomena (physical, chemical, biological phenomena)
.2	Preparation of baths and developing apparatus		Document photography. Reproduction photographs
.3	Handling and treatment of exposed material before developing	.04	—778.1
.4	Development (developing)		Pictorial, artistic photography. Photographs according to subject
	—771.72		77.04 ≈ 7.04, e.g.
.41	Chemical development		77.041.5 Portrait photography. Portraits
.412	Development methods according to apparatus. Dish development. Tank development. Machine development (including spray processing)		.044 Reportage. News photography
			.044:656.1.08 Photographs of road traffic accidents
.415	Influencing of sensitometric properties, and properties of the developed image, by developing	.05	.047 Nature photography (e.g. landscape photography)
	—771.537		Photography and exposures according to ambient conditions
.2	Influencing of sensitometric properties	.051	Daylight exposures
.3	Influencing of grain size, sharpness, resolution and contrast transmission function	.052	Exposures by artificial light (e.g. flashlight)
		.053	Exposures with combined lighting. Daylight with artificial light. Night exposures, without additional lighting
.5	Influencing of image colour		Time exposures
	—778.6	.054	Instantaneous exposures. Snapshots
.7	Influencing of mechanical properties	.055	—778.37
.417	Development techniques for special conditions	.056	Outdoor exposures
	77.023.417(211) Development in cold climates	.057	Indoor exposures
	(213) Development in hot climates	.058 1	Exposures from the air and from high altitudes. Aerial photographs. Bird's-eye views
.12	Development at low temperatures (< 18°C)	.2	Underwater photographs
.14	Development at high temperatures (> 18°C)	.06	Photographs, pictures or prints according to appearance, form or size
.2	Development in strong light. Daylight development	.062	Photographic copies or prints generally
			—77.039; 778.1
.3	Rapid development	.063	Positives (including transparencies)
.42	'Physical development' (silver deposition from the developer at the sites of silver nuclei)	.064	Negatives
		.065	Black-tone photographs. Black-and-white, monochrome photographs
.421	Before fixing		Colour photographs
.422	After fixing	.067	—778.6
.43	Development with gases, e.g. ammonia	.068	Sizes, formats of photographs (pictures and bases)
.44	Semi-dry development		Small formats. Up to 35 mm gauge
.46	Development by physical agencies (e.g. electrolytic development, heat development)	.2	Medium formats. Up to postcard size (105 mm x 148 mm)
.5	Toning before fixing	.3	Large formats
.7	Work on the developed image	.4	—778.123
.71	Hardening		
.72	Stopping		
.73	Clearing and fixing		

77.069	Defects, faults, flaws in photographs (negatives or prints)	771.32	Plate or film holders, carriers. Dark slides. Adapters (e.g. for sheet film, to fit roll-film cameras)
.07	Photographs according to support or base material	.33	Devices for daylight loading, changing and positioning
	—771.52		Changing devices (for plates or sheet film)
.071	Opaque prints, on paper, card etc.	.331	Spools for roll-film cameras
.072	Transparencies, on glass, film etc.	.332	Film cassettes. Film cartridges
.073	Photographs on metal	.333	Film-packs
.075	Photographs on non-metallic mineral supports (except glass), e.g. porcelain, ceramics, stone	.334	Stands. Tripods
		.34	Optical parts of photographic cameras
.079	Photographs on rubber, plastics, other synthetics	.35	Photographic camera objectives
		.351	—535.31; 681.7.067.25
.08	Photographs according to intermediate stages (e.g. direct prints: daguerreotypes etc.)	.1	Simple lenses
		.2	Anastigmats
		.3	Wide-angle lenses
		.4	Telephoto lenses
			—778.32
		.5	Portrait lenses
		.6	Process lenses
		.7	Special lenses (e.g. soft-focus lenses)
		.352	Lens mounts
		.354	Diaphragms
		.355	Optical attachments except filters.
			Zero-power systems and attachments
			—771.449
		.358	Lens hoods. Revolving lens-hood turrets.
			Masks. Vignetting masks
		.359	Screens (for process photography). Screen attachments
		.36	Shutters. Shutter releases
		.366	Slot shutters. Roller-blind shutters
		.367	Between-lens shutters
		.368	Shutter releases
		.37	Camera accessories
		.371	Viewfinders
		.372	Distance meters. Telemeters. Rangefinders
		.376	Accessories for determining exposure and quality of light. Light meters. Exposure meters
			—535.24; 681.785.4; 77.022.5
		.2	Tables of exposure times
		.3	Exposure meters
		.33	Optical exposure meters. Photometers
		.35	Photoelectric exposure meters
		.6	Colour temperature meters for photographic purposes
			—535.233.5
		.4	Processing equipment (except exposure apparatus). Lighting. Finishing and storage equipment (for negatives and prints)
			—77.023; 771.2
		.41	Cutting and marking equipment. Glasses, masks etc.
		.42	Printing frames and machines (including machines for blueprints, dyeline and other trace-printing processes)
			—771.318
		.43	Developing, fixing, washing and drying equipment
		.431	Developing dishes
		.432	Developing troughs, tanks and machines
		.435	Washing equipment
		.436	Drying and glazing equipment
		.44	Lighting and light sources for exposure and printing
			—621.32; 628.9
			771.44:628.92 Natural lighting. Daylight exposure etc.
			:628.93 Artificial lighting
			(or — 621.32:771.44)
		.447	Continuous artificial lighting. Lamps or other light sources
		.448	Flash-lighting. Flashlight sources
			—662.124
		.2	Flash powders (magnesium, aluminium etc.)
		.24	Igniting devices for flash powders
		.4	Flashbulbs
		.6	Electronic flash
Principal divisions			
771	PHOTOGRAPHIC EQUIPMENT, APPARATUS AND MATERIALS		
.1	Buildings and parts of buildings for photographic purposes		
.12	Studios. Photographic studios. Film studios		
	—727.98; 791.44		
.13	Photo-finishing laboratories. Developing rooms. Darkrooms. Printing rooms		
.15	Research establishments and laboratories		
	—061.62		
.2	Studio and laboratory equipment, lighting, fittings etc.		
	—771.4		
.3	Exposure apparatus. Cameras. Enlargers		
	—778.53		
.31	Cameras and other exposure apparatus		
	—681.772.2		
	For cine-cameras — 778.53		
.311	Studio cameras		
.312	Portable stand cameras		
.313	Hand cameras		
.1	Plate and sheet-film cameras		
.2	Roll-film cameras		
.3	Film-pack cameras		
.4	Miniature cameras generally (including cameras using motion-picture film for single exposure)		
.314	Cameras according to structural design. Extension cameras (bellows cameras). Folding and self-erecting cameras. Rigid and box cameras		
.315	Binocular cameras		
	—778.42		
.316	Panoramic cameras		
	—778.36		
.317	Process cameras (photomechanical cameras), for graphic arts		
	—778.186		
.318	Duplicating or copying apparatus and cameras. Enlargers		
	—771.42		
.1	Contact copying apparatus		
.2	Copying cameras		
.3	Photocopying machines (using sensitized paper)		
.5	Enlargers		
.8	Devices for determining exposure time of enlargements		
.319	Special function cameras		
.1	Multiple-exposure cameras		
.2	Pin-hole cameras		
	771.319.2:778.33 Pin-hole cameras for radiography		
.3	Automatic photographic machines		
	—681.133		
.5	Astronomical and photogrammetric cameras		
	—520.3; 528.711.1; 778.32		
.6	Beam-splitting cameras. One-shot beam-splitters		
.7	Cameras incorporating processing, developing devices. Instant-print cameras (e.g. Polaroid)		

771.449	Means of controlling and modifying the lighting. Reflectors. Diffusers. Filters —771.355; 771.534.25	771.534.51 (cont'd)	Denote named systems by A/Z, e.g. ASA, DIN, Hurter-Driffield, Scheiner
.45	Finishing and mounting equipment. Equipment for retouching, tinting etc. Presses —77.024	.52	Sensitometers (Black-and-white sensitometers. Colour sensitometers)
.46	Storage, filing, display and viewing equipment —77.025	.53	Density law. Characteristic curves. Densitometry and densitometers
.5	Photographic materials, negative and positive. Emulsion vehicles. Bases or supports. Sensitized materials and their characteristics —77.021	.54	Sensitometric parameters, characteristics. Sensitometric contrast. Gradation. Gamma value. Range, latitude of exposure —771.537
.51	Emulsion vehicles (non-sensitive materials used in production of light-sensitive layers)	.58	Various effects due to exposure to excessive radiations. Herschel, Becquerel, Villard effects. Others
.52	Bases or supports for sensitive materials —77.07	.59	Fog
.521	Glass bases	.535	Latent image. Reactions of silver nuclei.
.522	Paper bases	.536	Regression, fading
.523	Plastics bases	2	Distortion of image and material
.524	Metal bases	.3	Dimensional changes. Stretch. Shrinkage. Curl —778.151
.526	Special stripping or transfer materials as temporary bases or supports —77.021.57	.537	Reticulation (crazing) —778.153
.53	Light-sensitive, photosensitive materials		Quality and properties of the developed image. Picture quality in general (methods of visual evaluation) —77.023.415; 771.534.54
.531	Kinds of light-sensitive material —77.021.12	.2	Optical properties of the developed image (e.g. colour)
.1	Plates	.3	Structural properties of the developed image.
.2	Papers	.4	Grain. Grain structure
.3	Films	.6	Tonal rendering. Density. Contrast. Density range
.32	Films in sheet form (including film-packs)	.8	Rendering of detail. Definition. Resolution. Sharpness. Halation. Development effects. Edge effects
.35	Cine film (motion-picture film)	.538	Chemical properties of the developed image. Fading and permanence
.351	Standard-gauge cine film (35 mm)	7	Direct blackening. Printing-out
.352	Narrow-gauge cine film (e.g. 8 mm, 9.5 mm, 16 mm)	.72	Photographic chemicals, solutions and finishing materials —661.14; 77.023; 773.71
.353	Wide-gauge cine film (e.g. 70 mm)		Developers. Developing agents and additions 771.72.023.41.019 Defects in developers for chemical processes .027 Regeneration of developers. Replenishers
.37	Special films 771.531.37:778.33 X-ray film :778.35 Film for aerial photography. Aero film	.725	Colour developers —778.62
.4	Coatings on flexible metal sheet	.2	Colour developers containing colour couplers
.533	Properties of undeveloped light-sensitive preparations	.4	Colour developers for materials already containing the colour coupler
.3	Physical properties	.726	Colour couplers
.4	Chemical properties	.728	Developer additions. Accelerators
.534	Sensitivity —535.217; 541.14	.73	Chemicals for stopping baths (stopping agents). Stopping baths
.1	General sensitivity. Increasing of sensitivity by various means (e.g. chemical)	.74	Chemicals for fixing. Fixers. Fixing and toning agents
.13	Sensitization. Increasing of sensitivity by various means (especially digestion and chemical sensitization) 771.534.13:546.593 Gold sensitization	.75	Chemicals for toning, bleaching, reducing, intensifying. Toning baths. Bleaching baths. Reducers. Intensifiers
.14	Hypersensitization (of coated products)	.78	Chemicals and baths for printing and other finishing processes 771.78:667 Dyes, mordants, inks and other colouring agents
.2	Spectral sensitivity. Optical sensitization —535.232.6	772	PHOTOGRAPHIC SYSTEMS, PROCESSES (ESPECIALLY THOSE USING INORGANIC SUBSTANCES OR PHYSICAL PHENOMENA) Processes based on the photochemical action of metallic salts
.21	Sensitization by means of dyes —77.021.13	.1/.2	Silver group. Silver. Copper. Mercury
.23	Sensitization for specific spectral regions	.11	Processes using a suitably treated silver plate (e.g. daguerreotype)
.231	Without special colour sensitivity. Blue sensitization	.12	Processes using silver salts on plain or coated paper (e.g. calotype)
.232	Orthochromatic sensitization (extending to yellow)	.13	Processes using silver salts in a coating (except collodion), sensitized by bathing
.233	Panchromatic sensitization (extending to red)	.14	Collodion processes
.237	Special ultraviolet sensitization (UV sensitization)	.15	Processes using silver salt emulsions
.238	Infra-red sensitization (IR sensitization)		
.24	Supersensitization		
.25	Filter factors —771.449		
.26	Control of spectral sensitivity by screening dyes —77.021.56		
.3	Desensitization —77.021.13		
.32	Desensitization by means of dyes		
.5	Sensitivity measurements. Sensitometry —535.24		
.51	Systems of sensitometry		

772.16	Processes using mixtures of silver salts and reducing agents	773.713.3	Two-component positive processes
.17	Processes using copper salts	.4	Processes involving transfer of image during development
.18	Processes using mercury salts	.6	Negative processes
.2	Processes using metals other than silver group	.8	Multicolour diazotype processes
.21	Simple ferropussiate paper processes (blueprint, cyanotype processes)	.714	Diazotype without azo dye formation
.22	Blueprint processes using a colloidal substance. Cyanotype processes with gum containing an iron salt	.1	Colloid hardening
.23	Ferrogallic processes	.2	Metallic reduction
.25	Manganese salt processes	.3	End effects, e.g. vesicular image
.27	Cobalt salt processes	.6	Photomechanical processes using diazo compounds
.29	Processes using metals other than the silver and iron groups	.715	—774/777
.9	Processes using physical phenomena	.716	Bases for diazotype. Preparation for use
.93	Electrography. Electrophotography. Electroradiography	.717	Diazotype reflex processes
	772.93.02 Electrographic operations (and associated equipment)	.72	—778.112
	.03 Electrographic records according to the kind of original	.74	Diazotype half-tone processes
	.06 Electrographic records according to appearance, form or size of carrier, paper etc.	.75	Leuco-base processes
.931	Electrostatic recording and printing (using dielectrics)	.8	Light-sensitive dye processes (bleach-out processes)
.932	Electrophotography and electroradiography (using photoelectric effect in semiconductors). Xerography. Electrofax. Xeroradiography	.9	Silver-dye bleach processes
.938	Electrographic machines and equipment	.774	Inking, pigment application processes.
.95	Recording of images using electrochemical and electrothermal phenomena	.2	Bromoil process. Bromoil transfer process
.96	Thermography	.3	Light-sensitive colloid, resin and polymer processes generally
773	PHOTOGRAPHIC SYSTEMS OR PROCESSES USING ORGANIC COMPOUNDS	.4	PHOTOMECHANICAL PROCESSES
	—774; 778.6	.6	GENERALLY
.1	Carbon or pigment process (autotype)	.7	—655.22; 773; 778.18
.11	Processes using mixtures sensitized with chromium salts	.8	Preparation of supports generally
.15	Processes using mixtures sensitized with iron salts	.9	Photomechanical sensitizing generally
.2	Dusting-on processes (powder processes)	.1	Exposure to light. Stripping (washing out).
.3	Differential tanning, dyeing, imbibition	.2	Preparing plate for printing
.5	Dye processes	.3	Transfer processes
.51	Processes using chromium salts	.4	Processes for rendering tonal gradation (half-tone processes)
.52	Processes using chromium and vanadium salts	.5	Processes for colour printing (i.e. multicolour printing)
.6	Enamels. Photoceramics	.6	—776.8; 777.18; 777.28; 778.68
.7	Processes using dye-forming organic compounds and light-sensitive dyes. Dyeline processes	.7	Planographic processes using colloidal layers.
.71	Diazo processes. Diazotype	.8	Collotype
	—771.7	.9	PHOTOLITHOGRAPHY. PHOTOGRAPHIC
.711	General photochemistry and physics of diazo processes	.1	PRODUCTION OF PLANOGRAPHIC PLATES
.712	Diazo compounds and other agents used in diazotype	.2	—655.226; 763
	—77.021.1; 771.728	.3	776.073 Processes using metal
.1	Light-sensitive diazo compounds	.4	surfaces. Photozincography etc.
.2	Coupling components	.5	.075 Processes using non-metallic
.5	Agents for modifying physical characteristics of coating or developing solutions (single components)	.6	mineral surfaces, e.g. stone
	—77.021.13	.7	.079 Processes using plastic surfaces
.6	Agents for improving keeping quality, stability to light etc. Humidifiers. Wetting agents.	.8	Photolithographic processes according to
.7	Development accelerators	.9	sensitive material
.7	Agents for modifying the physical or chemical nature of the developed image (e.g. toners, mordants)	.1	Process using dichromated (bichromated)
.8	Compounds used in developing diazo prints.	.2	colloids
.713	Developers and additions	.3	Processes using light-sensitive bitumen,
.1	Diazotype with azo dye formation	.4	asphalt
	Single-component positive processes	.5	Processes using silver halide emulsions
		.6	Preparation of support. Graining
		.7	Preparation of sensitive surface. Sensitizing
		.8	Exposure to light (including step-and-repeat
		.9	techniques)
		.1	Stripping (washing out)
		.2	Preparing plate for printing. Desensitizing.
		.3	Etching to affect moisture-retaining
		.4	properties
		.5	Tonal reversal of image (black to white).
		.6	Reversal processes, e.g. Vandyke process.
		.7	Offset deep-etch (intaglio litho) processes
		.8	Transfer processes for photolithographic
		.9	images
		.1	—655.34
		.2	Processes for rendering tonal gradation
		.3	(half-tone processes)
		.4	776.7:777.3 Screen processes (half-tone
		.5	screening)
		.6	Processes for colour photolithography (i.e.
		.7	multicolour photolithography)
		.8	—774.8 and references there

777	INTAGLIO AND RELIEF PROCESSES. PHOTOGRAPHURE. LETTERPRESS OR RELIEF PLATES (LINE AND HALF-TONE BLOCKS)	778.14 (cont'd)	778.14:002 Microcopying in documentation
.1	Photographic processes for production of intaglio plates —655.224; 762	.142	778.14.071 Micro-opaques (e.g. on paper or card). Microcards
.11	Intaglio processes according to sensitive material	.148	.072 Microtransparencies (e.g. on glass or film). Microfilm
.12	Preparation of support	.2	Microcopies. Microphotographs (on roll, sheet, fiche etc.)
.14	Etching	.148	Reading apparatus. Microfilm readers —778.27
.15	Retouching of the etched surface	.6	Projection-type readers
.17	Graining. Screen processes	.15	778.148.2:778.274 Diascopic readers
.18	Processes for colour photogravure (i.e. multicolour photogravure) printing —774.8 and references there	.151	Direct-viewing readers
.2	Photographic processes for production of relief plates (line and half-tone blocks) —655.225; 761 777.2:621.357.7 Electroplating of relief plates	.153	Special methods for modifying the image —771.537
.21	Relief processes according to sensitive material	.155	Geometrical modifications. Distortion and rectification —771.536.2
.22	Exposure to light	.156	Texture effects —771.536.3
.23	Stripping (washing out)	.18	Modification of tonal range
.24	Etching	.182	Tone separation
.27	Processes for rendering tonal gradation (half-tone processes) 777.27:777.3 Screen processes (half-tone screening)	.183	Reproduction or process photography —655.22; 774/777
.28	Processes for colour relief printing (i.e. multicolour relief printing) —774.8 and references there	.186	Process photography according to kind of photographic image or picture. Half-tone, line, cross-line pictures
.3	Translating of continuous tone into discontinuous tone elements. Screen negatives —774.7; 776.7; 777.17; 777.27	.19	Process photography according to photographic material used
.31	Reticulation processes	.2	Colour separations (for graphic arts or photomechanical processes) —771.317; 778.6
.32	Half-tone screen processes (including screens and their manufacture). Line screens (e.g. crossline screens). Grained screens. Variable-density and contact screens For retouching, use .024.1 (from 77.024.1)	.21	Other copying, reproducing and printing techniques (e.g. printing by scanning, electronic printing)
.33	Production of discontinuous tone by photoelectric scanning —621.383	.22	Projection. Projectors and screens —681.775; 778.45; 778.55
.4	Duplication, reproduction of plates —655.22; 681.617	.23	Mechanical parts of projection equipment —778.27
.5	Moulding processes. Woodburytype etc.	.24	Optical parts of projection equipment.
.6	Photofiligranes (Woodbury). Imitation watermarks. Lithophany etc. —676.026.74	.25	Lenses. Condensers
.7	Photosculpture. Processes for making photographs in relief, models etc.	.251	Special light sources
778	SPECIAL APPLICATIONS AND TECHNIQUES OF PHOTOGRAPHY	.252	778.23:621.326 Incandescent lamps for projection
.1	778:61 Medical photography	.254	Projection screens
.11	Photocopying. Photographic reproduction, copying, duplicating. Reprography —651.925.4; 655.392; 681.6; 77.039; 771.317/318	.26	Lantern slides. Positive transparencies. Film strips
.11	Contact printing and copying 778.11:772.21 Copying by ferropussiate processes (blueprint, cyanotype) :773.7 Copying by dyeline processes (e.g. diazotype)	.27	Lantern slides on glass
.111	Transmission printing (with light passing through the original)	.274	Film strips
.112	Reflex copying —773.716	.275	Lantern slides on film
.12	Projection printing and copying	.276	Accessories for making slides
.122	Same-size copying	.3	Various accessories (e.g. framing devices for slides)
.123	Enlarging —77.068.4; 771.318.5	.31	Projection lanterns (projectors): various types —681.775.2; 778.21
.124	Reduction	.312	Diascopes (slide projectors), for transparencies
.14	Microcopying. Microphotographic technique and equipment (including reading apparatus)	.315	Episcopes (for opaques)
		.317	Epidiascopes (for transparencies or opaques)
		.32	Techniques with mainly scientific applications
		.33	Techniques in which the object is photographed on an enlarged scale —537.533.35; 57.086.2/3; 621.385.833; 681.72
		.332	Photomacrography (magnifications up to $\times 10$)
		.333	Photomicrography (using optical microscope) —77.035
		.34	Electron micrography
			Telephotography (including astronomical applications) —520.3; 771.319.5; 771.351.4
			X-ray and gamma-ray photography.
			Radiography —621.386 and references there
			Radiographic apparatus
			Intensifying screens (photographic uses only)
			Photography by radiation other than light, X-rays and gamma rays —772.9

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.344	Infra-red-ray (IRR) photography	.7	Composite pictures (e.g. using front or back projection)
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	778.347:539.163 Autoradiography and autoradiographs (records of radionuclides in tracer work)		Direct viewing apparatus for pictures of moving objects
.35	Aerial photography	.54	Cinematographic projection and projectors —681.775.5; 688.746; 791.45
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.38	Holography (photographic aspects only)	.552	Projector parts and details 778.553 ≈ 778.533
.4	Stereophotography. Flat photographic reproduction with effect of solidity or relief —612.843.7; 777.7; 778.534.1	.553	Special methods of projection 778.554 ≈ 778.534
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.42	Stereoscopic cameras (stereocameras). Stereoscopic adapters, lens attachments —771.315	.58	Treatment of cinematograph film
.43	Making, processing, finishing of stereoscopic photographs. Stereoscopic prints. Stereo pairs	.582	Splicing, cutting, joining etc.
.44	Stereoscopic viewers. Stereoscopes.	.583	Perforation of printed film
.45	Stereoscopic projection	.587	Cleaning. Delubrication. Application of protective layers. Scratch removal
.5	Cinematography. Motion-picture photography —791.43	.588	Copying, printing of cine-film (equipment, laboratories etc.). Copying of internegatives and duplicate negatives. Copies, prints
.51	Early and primitive animated pictures (including drawings and other non-photographic forms). Flickers, mutoscope, zoetrope etc.	.2	Contact printing. Contact copying machines and their parts
.52	Photographs at fixed intervals, allowing reconstitution of motion. Chronophotography —778.534.8; 778.82	.3	Optical printing. Reduction. Enlargement
.53	Cinematographic filming. Exposure, registration (takes, shots). Methods. Cameras (cine-cameras) and other equipment. Film and other materials —681.772.3; 778.55	.5	Fades and wipes. Equipment for printing fades and wipes
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.1	Film channel, guide. Film feed, transport. Feed rollers, sprocket wheels	.63	Direct colour photography processes —771.319.6
.2	Film gate	.64	Additive colour processes
.3	Shutter	.643	Screen processes for colour photography
.4	Film magazines. Film reels	.645	Additive superposition of monochrome photographs —535.623; 771.319.6
.5	Film take-up and rewind devices	.648	Two-colour additive processes
.6	Operating mechanisms (mechanical, electric etc.)	.66	Subtractive colour processes. Colour reversal pictures
534	Special kinds, systems and methods of cinematography	.67	Copying of colour photographs
.1	Stereoscopic cinematography Other methods producing spatial effect. Wide-screen and panoramic systems —778.4	.68	Colour rendering. Colour fidelity (and lack of fidelity) in photographic reproduction —774.8
.2	Colour cinematography (multicolour cinematography) —778.6	.8	Photography with multiple or continuous exposures. Trick photography. Illusions etc.
.3	Cinematography with endless film loop	.81	Distorted photographs. Trick photography
.4	Sound record of film. Sound film —681.84.083.5	.82	Multiple photographs of the same object (not intended for reconstitution of motion) —778.52
.42	Sound record separate from film	85	Superimposed photographs of similar objects or persons for visualization of common characteristics
.45	Sound film (with sound track on the film). Optical and magnetic sound tracks	779	COLLECTIONS OF PHOTOGRAPHS, FILMS ETC. —026.064
.46	Stereophonic sound film. Stereophonic sound tracks (optical and magnetic)		779:72 Collections of architectural photographs
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			MUSIC —246.8; 681.8; 778.534.4; 792
			Special auxiliary subdivisions
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78.01	Aesthetics. Philosophy. Taste. Theory of music —534.3; 781	78.088 (cont'd) .089	78.083.8; 78.089.7 Format of published musical works Libretti. Legends. Commentaries —82-293	
.02	Composition of musical works 78.021 Methods. Preparation, drafting. Scoring. Instrumentation .026 Music copying. Reproduction of scores, parts	.1 .6 .7 .8	Scores. Parts Piano reductions —78.088 Collections of works according to composer	3a.
.04	Subjects for musical representation. Programme music. Illustrative, descriptive or representational music	Principal divisions 781	THEORIES OF MUSIC. GENERAL QUESTIONS —78.01	neral
.067.26	Popular music —784.4			istry
.07	Occupations and activities associated with music 78.071 Creative and interpretative occupations. Musicians and their functions .1 Creative musicians. Composers .2 Performing musicians. Conductors, instrumentalists, singers .072 Expertise in music. Musicologists. Music critics	.1 .2 .21 .22 .24 .41	Scientific theories of music. Mathematical, physical, physiological, psychological bases. Musical acoustics —534.3 General theory of music General principles. Musical grammar Sound from musical point of view. Tone. Timbre. Tonality. Keys. Chords. Intervals Notation. Clefs etc. Harmony. Thorough bass. Figured bass. Modulation Counterpoint. Canon. Figure Melody. Melodic structure Musical forms. Kinds of musical work <i>Details by .08...</i>	istricts ts
.08	Characteristic features, forms, combinations etc. Musical forms	.42 .43	General questions of composition and interpretation Rhythm. Metre. Syncope. Dynamics. Intonation Instrumentation. Orchestration Transposition. Instrumental reduction Improvisation Accompaniment Interpretation. Tempo. Expression. Phrasing. Nuance	cial s of
.082	Symphonies. Sonatas	.5	Theories and forms of national music (of various countries or peoples) 781.7(54):789.5 Use of bells in music of the Indian subcontinent	s.
.083	Other, shorter forms	.6	Theories and forms of music of antiquity Bibliographies of musical works <i>For bibliographies of works about music, use 016:78 or 78(01)</i>	
.1	Suites, divertimenti etc.	.62	Inventories of musical sources (works showing the location of the manuscript or the earliest edition of musical works) Catalogues of musical works	to
.2	Variations. Preludes. Fugues	.63		
.3	Fantasias. Arabesques. Moments musicaux. Toccatas. Humoresques. Capriccios etc.	.64		
.4	Meditations. Nocturnes. Serenades. Songs without words. Berceuses	.65		
.5	Rhapsodies. Ballades	.66		
.8	Transcriptions. Paraphrases. Potpourris —78.088	.68		
.084	Marches. March-like forms	.7		
.085	Dance forms .1 Early dances (e.g. minuets, gigue) .2 Older ballroom dances (e.g. waltzes, polkas) .3 Modern dances (e.g. tangos, foxtrots) .4 Children's dances .5 Ballets .7 National dances. Character dances	.8 .97		
.086	Separate parts of dramatic musical works (other than vocal music). Overtures. Intermezzos, entr'actes. Finales	.972		
.087	Forms in relation to the instruments used —785.7; 786/789	.973		OF
.1	For one solo instrument, e.g. 787.1.087.1 Works for solo violin or viola d'amore	782/785 782	KINDS OF MUSIC Dramatic music. Opera. Operetta —792, esp. 792.5; 82-293 Grand opera (with sung recitative) Opéra comique (with spoken dialogue) Comic opera. Opera buffa Operettas. Stage plays with songs (musicals) Pantomimes, masques, ballets etc.	s y i).
.2	For solo instrument with accompaniment, e.g. 787.1.087.2:786.2 Works for violin or viola d'amore with piano accompaniment	.1 .6 .7 .8	Church music. Sacred music. Religious music —245; 246.8; 291.31 783:282 Roman Catholic church music [283/289] Protestant church music :283(410.1) Anglican church music	
.3	For several solo instruments 78.087.3 ≈ 785.7	.91		
.4	With one instrument as accompaniment, e.g. 786.2.087.4 Works with piano accompaniment	783		
.5	Works for learning and practice. Exercises, scales, studies etc.			id
.6	Vocal music	.1	Sacred instrumental music (e.g. for organ, for orchestra)	
.61	For one voice	.2	Liturgical music. Liturgical song	
.611	For child's voice. For boy's voice	.3	Sacred oratorios. Passion music. Sacred cantatas	ie
.612	For woman's voice. Soprano. Mezzosoprano. Contralto	.4	Church anthems, motets and chants (not mentioned elsewhere), e.g. in the manner of Palestrina	
.613	For man's voice Tenor. Baritone. Bass	.5	Gregorian and Anglican chant. Plainsong	
.62/.67	For more than one voice 78.087.62/.67 ≈ 785.72/.77	.6	Sacred choral music, songs, hymns. Carols. Popular religious songs	
.681	Children's choirs. Boys' choirs	.8	Choral music for cantor or precentor and choristers	
.682	Women's choirs	.9	Congregational songs, canticles, hymns, sequences	
.683	Men's choirs			
.684	Mixed choirs			
.685	Solos with chorus			
.088	Transcriptions, arrangements for other instruments or voices (without other alteration)			

784	Vocal music	787.65	For mandolin
.1	A cappella music. Unaccompanied vocal music. Rounds, madrigals etc.	.68	For zither. For psaltery
.2	Vocal extracts from larger works. Arias from operas, oratorios etc. Recitatives	.7	For banjo
.3	Vocal chamber music. Songs, ballades, lieder etc.	.9	For stroked instruments without strings. For glass harmonicas, musical glasses. For glass harps
.4	Popular, traditional, historic songs. Folksongs. Drinking songs. Street cries, ballads etc.	788	Music for wind instruments
	—398.8; 78.067.26	.1/.4	—785.12
.5	Secular oratorios and cantatas	.1	For brass instruments. For metal wind instruments
.66	Community songs. Songs of particular social groups, occupations etc.	.2	For trumpet
	784.66:378.18 Students' songs	.3	For trombone
.67	Children's songs	.41	For cornet. For cornet-à-pistons
.68	Songs for particular seasons and festivals	.43	For natural horn. For hunting horn. For post horn. For Jagdhorn (cor de chasse, corno di caccia). For valve horn (French horn)
	784.68 ≈ 398.33	.48	For saxophone
.7	Other kinds of song	.5/.8	For tuba. For euphonium, sousaphone etc.
.71	Martial songs. National anthems. Patriotic and political songs	.5	For woodwind instruments
	784.71(438) Polish patriotic songs, national anthem etc.	.6	For flute. For recorder etc.
.72	Humorous, comic songs. Satirical songs	.7	For clarinet
.75	Exotic songs. Negro songs. Black minstrel songs	.8	For oboe. For cor anglais. For shawm. For krummhorn (crumhorn) etc.
.9	Singing technique. Solfeggi, sol-fas. Vocal exercises. Singing practice	.9	For bassoon
785	Instrumental music. Symphonic music. Grouping of instruments. Ensemble music	789	For other wind instruments
.1	Ensemble music for relatively large numbers of instruments	.1	For alpenhorn. For bagpipe
.11	Orchestral music. Music for symphony orchestra	.2	For mouth organ (harmonica)
.12	Music for wind bands (e.g. brass bands)	.3	Music for percussion instruments. Music for mechanical musical instruments
	—788	.4	For drums. For snare-drums. For timpani (kettledrums)
.13	Military music	.5	For cymbals. For castanets etc.
.15	Hunting music		For triangles
.16	Music for small orchestras. Dance band music. Jazz	.6	For tambourine (timbrel)
.6	Concertos	.9	For percussion instruments with sound plates or tubes. For bells, chimebells. For carillons. For tubular bells. For glockenspiel. For vibraphone
	785.6:787.1 Concertos for violin or viola d'amore		For xylophone. For celesta
.7	Chamber music. Music for several instruments concertante	79	For mechanical musical instruments. For pianola. For orchestrion. For instruments with electric and electronic sound production
	—78.087		—681.82
.72	Duos		RECREATION. ENTERTAINMENT. GAMES. SPORT
.73	Trios		79-05 Persons and personal characteristics in entertainment, sport etc.
.74	Quartets		Details from Table I(k)-05
.75	Quintets		79.07 Occupations and activities associated with entertainment, sport etc.
.76	Sextets		Details from 7.07
.77	Septets		.091 Performance, presentation
.78	Octets		.092 Competitions. Contests. Records. Championships
.79	Nonets		
786/789	MUSIC FOR INDIVIDUAL INSTRUMENTS		
	786/789 ≈ 681.816/.819, except for 786.7 and 789.9		
786	Music for keyboard instruments	791	PUBLIC ENTERTAINMENTS. SPECTACLES. DISPLAYS
.1	For keyboard instruments with strings plucked or struck by tangent. For clavichord. For harpsichord family	.43	—394.2
.2	For keyboard instruments with strings struck by hammer. For pianoforte (piano)		Cinema. Films (motion pictures)
.6	For organ (pipe organ)		—688.746; 778.5
.7	For reed-organ. For harmonium		Special auxiliary subdivisions
.8	For concertina. For accordion	791.43-1/-9	Genres of film
787	Music for stringed instruments		791.43-1/-9 ≈ 82-1/-9, e.g.
.1/.4	For bowed instruments		791.43-2 Fictional films. Film dramas
.1	For violin. For viola d'amore		-21 Tragic films
.2	For viola. For alto viol		-22 Comic films
.3	For violoncello (cello). For viola da gamba (bass viol)		-24 Historical films
.4	For other bowed instruments. For double bass. For contrabass viol		-252 Fantasy films
.5	For plucked instruments without fingerboard. For harp. For lyre		-293 Films with strong musical emphasis. Film musicals, operettas
.6	For plucked instruments with fingerboard	791.43.01/.097	-92 Film journalism. Documentary films. Newsreels
.61	For guitar		As 7.01/.097, e.g.
.62	For lute. For theorbo		791.43.01 Theory of cinema. Aesthetics of cinema
			.03 Film styles

791.43 (cont'd)	791.43.04 Subjects of cinematic representation. Iconography and iconology of films. Subject matter and treatment	792	THEATRE. STAGECRAFT. DRAMATIC PERFORMANCES —688.74; 725.82; 782; 82-2
	.041 Cinematic representation of people, the human form	Special auxiliary subdivisions	
	.047 Films about scenery, landscape etc.	792.021	Stage design and decor in general
	.05 Films according to purpose	.022	Mechanical equipment and services. Stage machinery. Lighting equipment. Theatre workshops
	:008 Cultural films in general	.023	Stage equipment and properties (props). Scenery. Furniture etc.
	:371.686 Film as audiovisual aid, teaching material	.024	Actors' properties (props) and equipment. Theatrical costumes. Make-up
	:659.1 Publicity, advertising, promotional films (generally)	.026	—687.16
	—659.137; 659.148	.027	Scripts. Libretti. Musical works for stage use. Casting
	.077 Amateur films	.028	Artistic direction. Continuity techniques
Principal division			Acting. Performing. Acting technique
791.44	Film production	.03	Interpretation of roles
Special auxiliary subdivisions			Theatre and dramatic art according to periods, styles
791.44.02	Film technique, craftsmanship. Processes and auxiliary equipment in film production		<i>Details from 7.03</i>
	As 7.02, e.g.	.05	Theatres and stages (types, layout)
	791.44.022 Equipment for filming.	.071	Creative and interpretative occupations. Professional stage and theatre artists. Stage directors. Stage actors, players, performers
	Properties (props), lighting etc.	.072	Theatre experts and expertise. Theatre writers, historians etc. Theatre critics
	.022:621.32 Electric lamps for film lighting	.073	Theatre goers. Theatre audiences. Spectators etc.
	.024 Film titles, captions. Main titles. Credit titles. Subtitles etc.	.075	Commercial management of theatre. Theatre organization and publicity. Managers. Producers. Impresarios. Promoters. Agents
	.026 Reproduction. Copying. Copies, prints of films	.077	Amateur theatricals and players. Amateur dramatics and performers
.071	Creative and interpretative occupations. Professional artists in film	.08	Theatre pieces, plays, shows (according to participation, size or scale, length etc.). Solo. Duo. Full cast. Intimate pieces etc.
	<i>Roughly as 7.071 (but .071.5 has a different meaning here)</i>	.09	—82-2
.1	Creative artists in film. Film directors		Performances. Rehearsals. Competitions. Presentation in various media
.2	Performing, interpretative artists in film. Film actors, players		<i>Details from 7.091/.097</i>
.5	Cameramen. Sound engineers	Principal divisions	
.075	Commercial management of films. Film producers. Film wholesalers. Film distributors. Film hire libraries	792.2	Spoken drama. Plays
	Principal divisions	.5	Musical productions. Operas. Operettas. Musical plays etc.
791.45	Cinemas. Exhibition of films		—782
	791.45.073 Cinemagoers. Cinema audiences. Film fans	.7	Variety. Vaudeville. Music-hall. Cabaret. Revues. Pantomimes
.5	Waxworks, puppets and similar exhibits	.8	Presentations of art of movement. Ballet. Staged dance. Choreography. Eurhythmic displays
	—792.9	.9	Special kinds of theatre. Multi-media productions. Son et lumière. Shadow, silhouette theatre. Puppet and marionette theatre (including Punch-and-Judy shows) etc.
.6	Public festivals. Parades. Illuminations. Pageantry		—688.723/.724; 688.745; 791.5
	—394	793	SOCIAL ENTERTAINMENTS AND RECREATIONS. ART OF MOVEMENT. DANCE
.61	Fairs. Festivities etc.		—394.3
	—394.6	.2	Particular social recreations, requiring preparations. Harvest festivals. Christmas festivities. New year festivities. Birthday celebrations. Wedding festivities
.62	Public ceremonies. Coronations. Processions. Triumphal processions. Military parades. Commemorations	.3	Art of movement. Eurhythmics. Dance
	—394.4	.31	—394.3; 78.085; 792.8; 796.412
.63	Illuminations. Fireworks. Torchlight processions	.32	Folk, national, regional dances. Round dances. Country dances
	—628.794.6	.33	Old, archaic dances. Eurhythmics. Art of movement. Character dances. Expressive dance. Artistic dances
.65	Carnivals. Masquerades	.34	Social dances for individual couples. Ballroom dancing
	—394.25	.38	Social dances for groups or teams. Formation dancing. Square dancing etc.
.66	National festivals	.386	Balls. Public dances
.7	Recreation grounds, playgrounds etc. Funfairs. Swings. Slides. Helter-skelters. Roundabouts. Switchbacks. Scenic railways		Masques. Masked balls. Costume, fancy-dress balls
	—688.77; 712.25		
.8	Menageries. Circuses. Exhibitions and performances involving trained or fighting animals		
	—636.046/.047		
.82	Menageries		
	—636.025		
.83	Circuses		
.86	Fights involving animals. Bull fighting. Bear baiting. Cock fighting etc.		

793.4	Action games. Blind man's buff. Hide-and-seek etc.	796.012.4	Basic forms of movement. Process of movement. Kinds, types of movement. Walking. Running. Jumping. Climbing. Throwing. Others
.5	Games involving forfeits		Starting. Turning. Aiming
.7	Games not characterized by action. Instructive games. Memory games. Games testing observation, presence of mind etc. Forbidden words (e.g. yes-no games). Puzzle games. Riddles. Conundrums. Others	.47 .5 .6	Technique of movement. Form of movement. Phases of movement
.8	Scientific recreations. Conjuring. Sleight-of-hand. Illusionism. Magic tricks	.8 .015	Movements for sports practice. Physical exercises
794	BOARD AND TABLE GAMES (OF THOUGHT, SKILL AND CHANCE) —685.8	.1 .2 .3	Body positions. Standing, sitting, lying etc. Methodology of sport. Sports training. Performance in sports. Load
Special auxiliary subdivisions			Theory and methodology of training
794.02	Practical play and equipment	.4	Training programme. Planning of training
.05	Strategy of play. Tactics. Analysis etc.		Training periods. Cycles of training. Stages of training
.08	Participation (number of players), combinations etc. Solo, duo, team playing. Long-distance play (correspondence, telephone etc.)	.5 .51 .52	Training organization. Management of training
.09	Competitions, contests, matches etc. (and their presentation) Details from 7.091/.097	.53 .54 .56 .6	Types of training
Principal divisions			Interval training
794.1	Chess	.628 .68	Strength training. Training for muscular strength. Body-building
.2	Minor board games not dependent on chance. Draughts. Checkers (chequers). Hailma. Others	.8	Speed training
.3	Table games with pieces or counters and an element of chance. Backgammon. Ludo. Dominoes. Mah-jong. Snakes and ladders. Others	.02	Endurance training
.4	Card games		Compensatory training
.41	Bridge and other partner games. Whist. Others	.022	Load. Physical capacity. Gradual approach to peak performance
.42	Card-combination games. Poker. Baccarat. Vingt-et-un. Others	.7	Overload
.43	Card-pattern, sequence and matching games. Patience (solitaire, US) etc.	.03	Condition as regards training. Supervision of degree of training
.5	Pattern games or puzzles requiring patience or dexterity. Solitaire. Abacus-type puzzles. Jigsaw puzzles. Manipulative puzzles. Others	.032 .2 .034	Performance in sports
.8	Minor aiming games. Children's miniature games. Shovelboard (shuffleboard). Quoits. Darts. Others		Technical matters. Practice and exercise facilities. Sports gear, equipment. Materials. Protection against accidents, hazards
.83	Table games imitating sports. Table football. Others		Equipment for games, gymnastics, sports. Sports gear and accessories for competitions, contests —623.44; 685.6/.7
.85	Pin-table games. Pin-ball etc.	.2	Sports clothing —687.14
.9	Games of pure chance	.6	Sports movement. Sports activity from various points of view
.91	Dice	.035	Olympic movement. Olympic concept, idea
.92	Roulette	.05	Olympic Games
.93	Lotto and similar random choice games. Tombola, housey-housey, bingo etc.	.058 .06	Sport according to participation 796.034-056.26 The physically handicapped, disabled as participants in sport
796	SPORT. GAMES. PHYSICAL EXERCISES —362.83; 379 8; 685.6/.7	.062 .063	Mass sport. National sport. Popular sport
Special auxiliary subdivisions			Top-level sport. Competitive sport
	<i>Roughly as 7 01/.09, with extensions and adaptations; applicable in 796/799</i>	.065	Recreational sport. Sport for health. Keep-fit
796 01	Philosophy. Theory. Purpose. Methodology. Ethics. Aesthetics	.07 .071	Manner of contest. Combative style. Strategy. Tactics
.011	Philosophical, scientific, theoretical principles of physical culture and sport		Analysis of execution of strategy and tactics
.5	Ethics of sport	.2	Organization of sport, in general. Rules. Regulations. Formalities. Functions in sport
.012	Dynamics. Theory of movement in sport	.4	Organization and management of sport
.1	Motor functions in sport		Rules of competition. Rules of games and sports
.11	Motor capacities. Dynamic characteristics. Bodily characteristics	.072.2 .3	Functions in sport (and their execution) e.g. refereeing
.12	Strength capacity. Power	.4	Kind of participation in sport
.13	Speed capacity	.073	Professionalism. Professional sportsmen and cadres
.2	Coordinative, psycho-physical capacities. Agility, balance, suppleness etc.	.075 .077	Professional sportsmen, players
.3	Characteristics of movement		Professional sports cadres. Sports teachers. Practice leaders. Trainers. Guides
.31	Coordination of movement	.5	Sports scientists. Sports theorists
.35	Rhythm of movement. Accompaniment of movement. Harmony of movement. Naturalness of movement	.078 .08	Sports reporters. Sports writers
			Referees. Linesmen. Timekeepers. Judges
			Sports connoisseurs. Sports enthusiasts. Spectators. Sports fans
			Commercial organizers. Managers. Promoters
			Amateurism. Amateur sportsmen, players. Amateur trainers etc.
			Trainee sportsmen. Sports pupils, students
			Patronage, sponsorship of sport.
			Encouragement of sport
			Participation (number of players), combinations etc.

796.081	Solo sport. Individual participants (with or without competitors)	796.41	Gymnastics. Competitive gymnastics.
.082	Two participants (opposed, or as duo)	.411	Acrobatics
.083	Three participants	.412	Free exercises. Mass exercises
.085	Normal complement of teams, sections, groups. Team. Crew		Rhythmic gymnastic exercises. Competitive gymnastics. Artistic gymnastics
.09	Contests. Records	.413	—793.3
.092	Records. Best, superlative performances	.414	Balancing exercises (with or without apparatus)
.2	Records. World records (international records). National records. Road championships		Exercises on fixed equipment. On horizontal, parallel and asymmetric bars. On vaulting horse
.27	Technical qualities (of vehicle or equipment)	.416	Trapeze and ring exercises. Climbing and hanging exercises (on rope, ladder, wall-bar etc.)
.093	Contests. Matches. Competitions. Races	.417	Acrobatic exercises. Floor exercises etc.
.1	Contests. Championships	.418	Jumping exercises. Skipping. Vaulting.
.2	Duration of contests		Trampolining
.3	Courses. Distances	.42	Athletics in general
.4	Contests according to form and development (E.g. elimination rounds, heats. Finals. Tournaments)		<i>Denote distances by (181) from Table I(e)</i>
.46	Tournaments. Tourneys. Regattas	.421	Walking
.5	Contests according to manner and location (e.g. indoor, outdoor)		796.421(181km20) 20 kilometre walking event
.52	On closed tracks	.422	Running
.54	On roads, streets	.12	Short-distance flat events (less than 1000m)
.55	In open country. Cross-country. Cross events		Sprints
.6	Contests according to number of events, disciplines. Combined competitions	.14	796.422.12(181m100) 100 metre flat event
.094	Screen, film, motion-picture presentation of sports events	.16	Middle-distance flat events (1000m to less than 10 000m)
.096	Sound radio presentation of sports events. (Radio commentaries etc.)		Long-distance flat events (10 000m and over)
.097	Television presentation of sports events		796.422.16(181km42) 42 kilometre (42 000m) flat event.
Principal divisions			Marathon (42.195km)
796.1	Outdoor games and recreation	.43	Field events. Jumping. Throwing
	—379.84	.431	Jumping
.11	Children's games	.1	High jump
.2	Games of motion and skill with special equipment	.2	Long jump. Triple jump
.21	Games with ropes (e.g. skipping ropes), hoops, swings	.3	Long high jump
.27	Croquet. Pall-mall	.4	Pole vault
.3	Ball games	.433	Throwing
	—797.25	.1	Shot putting. Weight throwing
.31/.32	With ball thrown by hand	.2	Javelin throwing
.31	High ball games with small ball. Fives. Field ball. Balle indienne. Jägerball. Balle cavalière	.3	Discus throwing
.32	High ball games with large ball. Handball. Basketball. Volleyball	.4	Hammer throwing
.322	Handball	.7	Throwing of other objects (e.g. balls, poles)
.323	Basketball. Korfball. Netball	.5	Tossing the caber
.325	Volleyball		Walking. Mountaineering. Orientation sports. Camping
.328	Other high ball games with large ball. Flyball. Fistball. Slingball	.51	—379.85
.33	With ball propelled by foot. Football (all codes)	.52	Walking. Rambling. Hiking. Marching
.332	Association football. Soccer	.54	Mountaineering. Climbing
.333	Rugby football. American football		Camping. Tenting
.34	High ball games with striking implement. Racket games		—355.716; 379.837
.342	Tennis. Lawn tennis	.56	Orientation sports. Orienteering
.344	Games played with shuttlecock. Badminton	.6	Wheel sports. Cycling. Roller skating
.345	Pelota, jai alai etc.		—796.7
.346	Squash. Rackets	.61	Cycling
.35	Low ball games with striking implement		796.61.093.52 Cycle racing on tracks
.352.2	Conventional golf	.62	"420.6" Six-day track race
.354	Miniature golf. Mini-golf	.69	.54 Cycle racing on roads, streets. Circuit racing
.355	Hockey (field hockey)	.7	Criterion racing
	—796.966	.71	.55 Cross-country cycle racing.
.356	Lacrosse	.72	Cyclo-cross
.357.2	Baseball	.8	Artistic cycling. Figure-cycling
.4	Softball		Roller skating
.358	Cricket	.81	Motoring. Motorcycling
.38	Table ball games	.82	Motoring
.382	Billiards and similar games (snooker, pool etc.)	.83	Motorcycling
.386	Table tennis. Ping-pong	.85	Combat sports. Self-defence sports. Heavy athletics. Trials of strength
.4	Gymnastics. Competitive gymnastics. Acrobatics. Athletics	.86	Free-style wrestling. All-in wrestling
	—371.7; 613.71; 615.825; 796.8	.88	Olympic wrestling. Graeco-Roman wrestling
		.9	Boxing
			Asiatic combat and self-defence sports.
			Martial arts. Unarmed combat (judo, ju-jitsu, karate, kung-fu etc.). Armed combat (kendo etc.)
			Fencing
			Weight-lifting
			Winter sports. Ice-games. Skiing. Sledging

796.91	Ice skating	797.215	Underwater swimming. Skin diving
	—685.36; 725.86	.217	Artistic swimming. Water ballet. Synchronized swimming
.912	Artistic skating. Figure-skating		Swimming with artificial aids
.914	Speed-skating	.22	Aquatic games. Waterball. Water polo.
	796.914(181m1500) 1500 metre speed-skating	.25	Others
.92	Snow-shoeing. Skiing	.26	Diving
.921	Snow-shoeing	.262	Springboard diving
.922	Cross-country skiing. Langlauf	.264	High diving
	796.922(181km30) 30 kilometre cross-country ski event	.5	Aerial sports. Parachuting
	796.922.093.6 Combined cross-country ski contests (e.g. Nordic combination race)	.54	Ballooning. Flying in dirigibles, airships
		.55	Flying in aeroplanes
.925	Ski-jumping. Speciality jumping. Ski flying	.551	In gliders. Gliding
.926	Alpine skiing	.555	In powered aeroplanes (fixed-wing aircraft)
.093.356	Slalom racing	.561	Parachuting. Parachute jumping (e.g. free fall)
.6	Combined alpine ski racing	.563	Sport with rocket-propelled devices
.928	Ski patrol events. Patrouillenlauf	798	RIDING AND DRIVING. HORSE AND OTHER ANIMAL SPORTS
.929	Other kinds of skiing. Dry skiing. Ski yachting		—636.04; 636.088; 685.1; 725.8
.93	Ski-joring (ski-kjøring)		<i>The special auxiliary subdivisions listed under 796 are also applicable here</i>
.95	Sledging. Sleighing. Tobogganing		Riding
.951	Sledging. Tobogganing	.2	Dressage
.952	Bobsleighing	.22	Riding exercises. Schooling
.96	Ice games	.23	Riding in schooling lanes, manèges
.962	Curling. Aimed throwing (on ice). Distance throwing (on ice)	.24	Mounted games (equestrian games etc.)
		.25	Polo (equestrian polo)
.964	Bowling games on ice. Ice skittles	.252	Equestrian jumping. Show-jumping
.966	Ice hockey	.26	Acrobatic riding. Circus riding
	—796.355	.27	Cross-country riding. Riding for hunting
.97	Sports on ice. Cycle, motor, horse events etc. on ice	.28	Three-day eventing (dressage, cross-country and show-jumping)
		.29	Horse racing. Mounted racing
797	WATER SPORTS. AERIAL SPORTS	.4	Fiat racing
	<i>The special auxiliary subdivisions listed under 796 are also applicable here</i>	.42	Steeplechase
.1	Water-craft sports. Boating	.44	Driving with horses. Coaching, carriage-driving. Trotting
	—527	.6	Driving contests. Trotting, harness racing
	797.1.093.46 Regattas	.66	Canine sports. Dog racing etc.
.11	Pleasure boating. Pleasure cruising	.8	Other animal contests, e.g. with birds
.12	Boating without sails	.9	798.9:636.596 Pigeon racing
.122	Kayaking. Canoeing. Paddling	799	FISHING. HUNTING. SHOOTING AND TARGET SPORTS
.2	Kayaking		<i>The special auxiliary subdivisions listed under 796 are also applicable here</i>
.3	Canoeing. Canadian canoeing		Fishing
.4	Canoeing with folding, collapsible canoes		<i>Details by :639.2...</i>
.5	Paddling		Freshwater fishing
.123	Rowing		Fishing with rod and line. Angling
.1	Sculling	.1	Net fishing in inland waters
.2	Rowing with oars	.11	Coastal fishing. Shrimping. Crab fishing
.14	Sailing. Yachting	.12	Sea fishing
.142	In centre-board or drop-keel boats. Dinghy sailing Jolly-boating	.13	Competition angling
.144	In keel-boats. Yachting	.15	Hunting
.15	Motor boating	.16	<i>Details by :639.1...</i>
.17	Sports using other water craft etc. (e.g. water cycles, pedal boats, podoscaphes)	.17	Shooting. Target sports
.176	Water skiing	.2	Shooting with firearms
.178	Surfing (surf-riding)	.3	With sports weapons
.18	Team games with boats. Canoe polo. Water jousting	.31	With hunting weapons (shotguns etc.)
.2	Swimming. Diving. Aquatic games	.311	Clay-pigeon shooting. Skeet shooting
.21	Swimming without artificial aids	.312	With military firearms
.212	Swimming strokes. Swimming disciplines	.313	With air guns
.2	Breast stroke	.315	Shooting with other weapons. With bow and arrow. Archery. Crossbow shooting. Catapult shooting. With hand-thrown missiles (e.g. boomerang). Others
.3	Back stroke	.32	
.4	Free-style swimming. Crawl		
.6	Butterfly stroke. Dolphin stroke		
.7	Medley swimming		
.8	Long-distance swimming		
.214	Rescue swimming, life saving		
	—614.81		

8 LANGUAGE. LINGUISTICS. LITERATURE

1/919

80	LINGUISTICS. PHILOLOGY. LANGUAGES —372.46	800.95	Human sign, mime and gesture languages. Thought communication by human signs or signals (other than written or spoken words)	
800	GENERAL QUESTIONS OF LINGUISTICS	.951	Natural mime, facial expression and gesture language	
.1	Philosophy, origin, development of language. General or philosophical grammar	.952	Conventionalized mime and gesture languages (e.g. deaf- mute gesture language)	ral
.2	Origins and periods of languages. Phases of development	.954	Visual code sign languages (e.g. deaf-mute alphabet)	
.21	Earliest forms. Origins	.955	Auditory sign languages. Sound code languages	stry
.22	Old or early periods	.958	Tactile sign languages. Touch or pressure communication	stricts
.23	Middle periods			
.24	Recent, modern periods			
.6	Usage and purity of language(s). Correct usage. Solecisms	801	GENERAL LINGUISTICS AND PHILOLOGY	s
.7	Practical knowledge of language(s)		<i>Specific languages or language groups may be denoted by colon combination with 802/809. Alternatively, linguistics of specific languages or groups may be arranged according to language under 802/809, using the special auxiliaries described at [802/809]-0 and [802/809]-1/-8</i>	ial
.71	Native language. Mother tongue. Vernacular	.1	Orthography. Spelling	of
.72	Official language. State-recognized language	.11	Alphabet in general	
.73	Knowledge of several languages. Multilingualism. Polyglottism	.12	Vowel and diphthong representation	
.732	Bilingualism	.13	Consonant representation	
.733	Trilingualism	.14	Systems of orthography. Phonetic orthography. Spelling reform	
.739	Knowledge of many languages	.15	Pronunciation	tical
.8	General groupings, classification and divisions of language(s). Natural language in general	.16	Stress, accentuation marks	
.81	Primitive languages. Languages of primitive peoples	.18	Abbreviations	
.82	Languages without extant literatures	.19	—003.083; 651.932	
.83	Modern languages (so-called). Living languages	.2	Punctuation marks	nits
.84	Dead languages. Extinct languages	.21	Parts of speech	
—807		.22	Articles, definite and indefinite	
.85	Languages or idioms according to medium or mode of communication. Written and spoken forms	.23	Nouns (substantives)	
.852	Written language(s)	.24	Adjectives	
.853	Literary language(s)	.25	Pronouns	
.855	Colloquial, spoken language(s)	.26	Verbs. Verb forms	to
.86	Special vernacular forms, idioms, jargons, slang etc. associated with particular social strata or user groups. Sociolects	.27	Numerals. Cardinals, ordinals etc.	
—801.316/.318		.28	Adverbs	
.861	Idioms of particular social classes (e.g. U and non-U)	.29	Conjunctions. Prepositions. Particles	
.1	Upper-class idiom (U). Cultured, educated parlance	.3	Word categories of non-flexional languages	
.2	Lower-class idiom (non-U). Common, popular parlance	.31	Lexicology. Vocabulary. Word and name research. Lexicography. Dictionaries	
.6	Polite, refined idiom. Parlance of high caste, court or other hierarchy	.311	—Table I(d) (03); 03 (main number)	
.862	Vulgar parlance. Slang in general	.1	Word grouping according to meaning and use	DF
.863	Idioms of particular sex or age groups	.3	Geographical, topographical names. Place names	s
.864	Secret languages, jargons (e.g. thieves' cant)	.33	Place names. Locality names. Street names	y
.865	Occupational slang	.5	Names of hills, mountains	);
.866	Professional and technical jargon	.6	Names of valleys, rifts, ravines, canyons, gorges, gullies etc.	
—801.316.4		.7	Names of inland waters. Names of rivers, canals, lakes etc.	
.87	Dialects. Local and regional language variants, vernaculars. Patois	.8	Names of seas, oceans	
.872	Local, district dialects	.312	Names of other physiographic features	
.873	Regional, provincial dialects		Names of states, countries	
.874	National variants or dialects (outside the country of origin)	.313	Names of natural phenomena (except physiographic). Plant names. Animal names	rid
.88	Mixed, hybrid, conventional languages. Contact vernaculars and jargons (e.g. Pidgin English, Papiamentu)	.1	Names of rocks, minerals. Meteorological names. Astronomical names	
.89	Artificial, planned languages. World, international auxiliaries	.2	Names of persons. Names of groups of persons, peoples etc.	
.892	Esperanto	.3	Given names. Forenames. Christian names etc.	re
.9	Languages based solely or mainly on signs other than written or spoken words	.4	Family names. Surnames etc. Patronymics. Matronymics	
.92	Information languages. Machine languages. Algol. Cobol. Find. Fortran. Inform. Syntol. Others	.42	Names of groups with a common social bond, status or rank (e.g. caste names)	
—681.3.04; 681.06	<i>Only linguistics aspects here</i>	.44	Names of peoples, of races (with distinct ethnic and linguistic characteristics)	—D JT)
			Of peoples distinguished more by ethnic than by linguistic characteristics	
			Of peoples distinguished more by linguistic than by ethnic characteristics	

801.313.5	Names of inhabitants of countries, regions, localities etc.	801.561.2	Sentence rhythm. Stress. Intonation. Modulation
.7	Names of occupations, professions etc.	.3	Simple clauses (noun and verb). Subject, predicate, copula
.314	Words related in form, meaning, etymology. Synonyms. Homonyms. Antonyms. Cognate words	.4	Clause complements. Object, attributes (noun, adjective)
.316.1	Neologisms	.5	Incomplete clauses
.3	Foreign words and phrases. Loan words. Alienisms. Exoticisms	.61	Affirmative clauses or sentences
.4	Technical terms. Words from special subjects —800.866	.62	Interrogative clauses or sentences
.5	Exclamatory words. Oaths. Swear-words —800.862	.63	Imperative, exclamatory clauses or sentences
.6	Fashionable, modish, vogue words. Clichés. Slogan words etc.	.7	Compound clauses. Periods. Sentences with coordinate and subordinate clauses. Parataxis. Hypotaxis. Ellipsis
.318	Peculiar expressions, idioms. Nonsense words etc.	.71	Parataxis. Coordination
.32	Word pronunciation and arrangement (in dictionaries, encyclopaedias etc.)	.72	Hypotaxis. Subordination
.321.1	Explanatory. Interpretative. Illustrative (dictionaries, encyclopaedias etc.)	.721	Dependent clauses
.321.1	Alphabetic order	.722	Incomplete subordinate clauses. Ellipsis
.3	Concept order. Thesaurus arrangement	.8	Phrases. Work grouping and groups. Types and elements of phrases
.323.1	One-language, monoglot dictionaries etc.	.562	Construction and phrasing of sentences and clauses. Regular and inverted order
.2	Bilingual dictionaries etc.	.563	Syntactic role and use of different parts of speech, word categories, grammatical forms
.3	Trilingual dictionaries etc.	.1	Of parts of speech
.9	Multilingual, polyglot dictionaries etc.	.2	Of grammatical forms, cases etc.
.4	Phonetics. Speech sounds (theory, production, changes etc.)	.564	Agreement of different parts of the sentence (subject and predicate, noun and adjective etc.). Grammatical congruence
.41	Analysis and properties of vocal sound. Pitch. Intensity. Quantity. Timbre —534	.6	Prosody. Metre. Scansion. Rhythm. Rhyme. Verse pattern
.42	Phonation. Articulation. Utterance of vocal sounds —159.946.3; 612.78	.611	Quantity
.44	Speech sounds	.612	Stress. Accentuation (of words and phrases)
.441	Vowels (sonants). Diphthongs	.613	Verse rhythm
.442	Consonants	.614	Verse melody
.46	Phonetic mutations. Sound changes. Sound shifts. Phonetic laws	.615	Verse harmony
.47	Syllables. Syllabification	.63	Metre. Metrical measures, feet
.48	Word cohesion. Word euphony, accentuation, tone	.631.1	Arsis and thesis. Rise and fall
.49	Phrase and sentence modulation. Rhythm and intonation of speech	.2	Pause. Caesura. Central and terminal pause
.5	Grammar	.3	Enjambement
Special auxiliary subdivisions		.4	Hiatus
801.5.01	Of flexional (inflexional) languages	.5	Prosodic licence
.02	Of agglutinative languages	.51	Contraction. Elision. Apocope. Syncope. Others
.03	Of isolating languages	.52	Prolongation
Principal divisions		.6	Verse endings. Catalexis etc.
801.52	Comparative grammar	.632	Alliteration. Assonance —801.66
.54	Etymology. Semantics. Word formation and development	.633	Disyllabic feet. Iambs. Trochees. Spondees. Pyrrhics
.55	Morphology. Accidence. Word forms and their flexion (inflexion)	.634	Trisyllabic feet. Anapaests. Dactyls. Others
.551	Declension	.635	Polysyllabic feet
.552	Conjugation	.65	Verse line and syllable patterns (according to numerical characteristics)
.553	Gender(s). Masculine. Feminine. Neuter	.651	Rhythmic measures or units. Feet. Monopody, dipody, tripody etc.
.554	Grammatical number. Singular. Dual. Plural. Collective	.653	Stress or accentuation. Arsis. Accentual verse. Diarsis, triarsis etc.
.555	Case(s) —801.563.2	.654	Metrical quantity. Classical or quantitative verse. Pentameters, hexameters etc.
.556	Degrees of comparison. Positive, comparative, superlative	.655	Lines according to number of syllables. Syllabic verse. Decasyllables, dodecasyllables (Alexandrines) etc. Blank verse, free verse etc.
.557	Grammatical person. First, second, third person	.656	Alternating, combined patterns
.558	Voice and other genera verbi. Active, passive, middle or reflexive etc. Deponent forms	.66	Rhyme —801.632; 82-1
.559	Tense. Mood	.662	Degree, extent of rhyme (number of rhyming syllables). Monosyllabic, disyllabic, trisyllabic rhyme etc.
.1	Tense. Present. Imperfect. Perfect. Pluperfect. Future. Others	.663	Linguistic-grammatical classification of rhymes. True, broken, split rhyme
.22	Kinds of action. Perfective. Cursive, durative, imperfective. Iterative. Terminative. Others	.664	Position of rhyme in the line (end, middle, beginning)
.3	Mood. Indicative, imperative, subjunctive etc.	.665	Rhyme plan or scheme. Rhyme pattern (of the stanza)
.56	Syntax. Word order and arrangement. Sentences. Clauses. Constructions	.67	Stanzas, strophes, couplets, verses (of a poem)
.561	Sentences generally. Rhythm and modulation. Clauses	.671	Generalities on stanzas. Strophe, antistrophe etc.
	Sentence structure	.51	Refrains

801.672	Classical strophes (Sapphic, Asclepiadic etc.)	[802/809] (cont'd)	[802/809]-3	Lexicology. Vocabulary. Word and name research.	114/919
.673	Germanic, Nordic and English verse forms (e.g. Edda, Nibelungen, Minnesänger stanzas)			Lexicography. Dictionaries	
.675	Romance verse forms		-4	Phonetics. Speech sounds (theory, production, changes etc.)	sa.
.1	French verse forms (quatrain, rondeau, rondel etc.)		-5	Grammar	.
.2	Italian verse forms (Ottava rima. Terza rima. Madrigal. Canzone. Sonnet. Triolet. Others)		-6	Prosody. Metre. Scansion. Rhythm. Rhyme. Verse pattern	teral
.3	Spanish verse forms (decima, glosse, canción etc.)				
.676	Slavic verse forms. Other western forms	Principal divisions			
.677	Oriental verse forms (of Indo-European and Semitic literatures). Indic, Persian, Arabic verse forms	802	Western languages in general		
.678	Other Asian verse forms. African verse forms	.0	English		istry
.7	Auxiliary sciences and studies of philology		802.0-022 Anglo-Saxon (Old English)		istricts
	801.7:003 Semiotics as philological auxiliary science. Study of philology through scripts etc.		-023 Middle English		its
.73	Hermeneutics. Textual criticism, interpretation, explanation. Recension. Exegesis		-024 Modern English (from the Renaissance)		hnic
.8	Sources of linguistics and philology.		-087 English dialects		enship
.81	Collections of texts		.2 Local English dialects (410.111) Dialect of London area. Cockney		cial
	Oral sources, mainly popular		.4 National variants of English (73) English of USA. American English		s of
	801.81:398.2 Folk tales etc. as philological source material		(93/94) Australasian English. English of New Zealand, Australia etc.		s.
.82	Written sources, literary texts		-088 English-based contact vernaculars. Pidgin English		
	801.82:830-2Schiller Dramatic works of Schiller as philological source material	803	Germanic languages		
.83	Mixed sources	.0	<i>For English — 802.0</i>		hical
802/809	INDIVIDUAL LANGUAGES		German. High German (Hochdeutsch)		
	<i>In principle, the subdivisions of 802/809 are derived from Table I(c) Common auxiliaries of language, = 2/ = 9, by substituting the digits 80 for the equals sign. In this edition, however, more detail is given here, and the language auxiliaries are derived by making the reverse substitution.</i>	.01	803.0-022 Old High German		inits
Special auxiliary subdivisions		.1	-023 Middle High German		f
[802/809]-0	General language and linguistic characteristics		-024 Modern High German. Modern German		to
	[802/809]-0 ≈ 800, e.g.		-086.4 German thieves' cant. Rotwelsch		
	[802/809]-02 Origins and periods of individual languages (from 800.2)	.91	-088 Hybridized German. Yiddish (Judeo-German)		
	-022 Old or early periods	.92	High German dialects. Oberdeutsch (Alemannisch. Bairisch). Mitteldeutsch (Fränkisch. Thüringisch. Obersächsisch. Schlesisch-Lausitzisch)		
	-023 Middle periods	.93	Low German (Niederdeutsch). Niedersächsisch. Westfälisch. Ostfälisch etc.		
	-024 Recent, modern periods	.931	803.1-024 Modern Low German. Plattdeutsch		
	-06 Usage and purity of languages	.932	West Germanic languages in general		
	-085 According to medium or mode of communication.	.936	Frisian		OF
	Written and spoken forms	.95	Dutch and its derivatives		
	-086 Special vernacular forms, idioms, jargons, slang etc. associated with particular social strata or user groups. Sociolects	.958	Dutch		s
	-087 Dialects. Patois	.959	Flemish		y
	-088 Mixed, hybrid, conventional languages. Contact vernaculars and jargons (e.g. at 802.0-088, 806.90-088)	.96	Afrikaans		),
	-089 Artificial, planned languages	.969	North Germanic (Nordic) languages		
	-095 Human sign, mime and gesture languages	.97	Faeroese		
[802/809]-1/-8	Linguistics and philology of individual languages	.98	Icelandic		
	[802/809]-1/-8 ≈ 801.1/-8, e.g.	.99	Norwegian		
	[802/809]-1 Orthography. Spelling	804	Landsmal, Nynorsk (New Norwegian)		
	-2 Parts of speech	.0	Swedish		
		.011	Danish		
		.012	East Germanic languages. Gothic		
		.90	Romance (Romanic, Neo-Latin) languages		
		.99	French		ld
		805.0	804.0-022 Old French		
		.05	-023 Middle French		
		.90	-024 Modern French		
		.92	North French dialects		
		.99	South French dialects. Franco-Provençal		e
		806	Provençal		
		.0	Catalan		
			Italian		
			Sard (language of Sardinia)		
			Rumanian (Romanian)		D
			Moldavian		T
			Rhaeto-Romance (Rhaetian). Friulian. Ladin.		
			Romansch. Churwelsch		
			Iberian Romance (Ibero-Romance) languages		
			Spanish		

806.90	Portuguese	809.167	Cornish
	806.90-088 Portuguese-based contact vernaculars. Papiamento	.168	Breton
.99	Galician	.169	Basque (Euskara)
807	Classical languages	.198.1	Armenian
.1	Latin. Classical Latin	.3	Albanian
.31	Archaic Latin. Praenestine Latin	.6	Tocharian
.32	Vulgar Latin	.7	Hittite. Hethitic
.33	Mediaeval Latin	.9	Other dead Indo-European languages.
.34	Modern Latin		Phrygian. Thracian. Messapian. Illyrian.
.35	Modern scientific and taxonomic Latin (Linnaeus to the present)	.199	Ligurian. Others
.5	Greek. Classical Greek		Various dead languages of Europe and Asia
.73	Mediaeval Greek. Byzantine Greek	.2	Minor. Lycian. Etruscan. Elamite. Lydian.
.74	Modern Greek		Others
808	Slavic and Baltic languages	.21	Semitic languages
.1	Slavic (Slavonic) languages		809.2-021 Proto-Semitic
.101	Old Slavonic. Church Slavonic	.211	East Semitic. Akkadian (Assyro-Babylonian).
.2	Russian (Great Russian)	.212	Sumerian
.26	Byelorussian (White Russian)	.22	Babylonian. Sumerian
.3	Ukrainian (Ruthenian, Little Russian)	.221	Assyrian
.4	Polish	.222	Aramaic, Palestinian, Nabataean etc.
.50	Czech		Aramaic
.54	Slovak	.226	Palestinian (Judeo-Palestinian). Language of the Jerusalem Targum. Samaritan
.6	South Slavic languages	.227	Nabataean
.61	Serbian	.23	Palmyrene
.62	Croatian	.24	East Aramaic. Syriac. Jacobite. Nestorian
.63	Slovenian	.26	Hebrew. Canaanite. Moabite
.66	Macedonian	.27	Phoenician. Punic
.67	Bulgarian	.271	Arabic
.7	Other Slavic languages. Sorbian (Lusatian, Wendish). Others	.272	Ancient Arabic (North Arabic)
.8	Baltic languages	.273	Classical Arabic
.82	Lithuanian	.275	Popular Arabic (Vulgar Arabic)
.83	Latvian (Lettish)	.28	South Arabic
			Ethiopic Semitic languages. Tigrinya (Tigrīña).
			Tigre. Amharic
		.3	Hamitic languages
809	ORIENTAL, AFRICAN AND OTHER LANGUAGES	.31	Ancient Egyptian (Dynastic Egyptian)
.1	Indo-European (Indo-Germanic, Aryan) languages in general		—809.27
	—802/808	.32	Coptic
.11	Indic languages in general	.33	North Hamitic. Libyan-Berber
.12	Ancient Indic. Sanskrit. Vedic	.333	Berber. Kabyle. Tamashek (Tuareg). Shilha.
.13	Middle Indic. Prakrit. Pali		Others
.14	Modern Indic. Modern Indo-European languages of India	.35	East Hamitic (Ethiopian Hamitic). Cushitic
.141	Sindhi	.351	Somali
.142	Panjabi (Punjabi)	.352	Galla
.143	Hindustani. Hindi-Urdu	.353	Bedauye (Beja)
.2	Hindi (Standard, High Hindi) and its dialects	.355	Afar. Dankali
.3	Urdu	.356	Agau languages. Bilin, Khamir, Quara (Kwara) etc.
.144	Bengali	.41/.45	Ural-Altaic (Turanian) languages
.145	Oriya	.41	Tungus-Manchu languages
.146	Marathi	.411	Tungus (Evenki)
.147	Rajasthani. Gujarati. Bhili	.413.1	Manchu
.148	Sinhalese	.42	Mongolic languages
.149.1	Assamese	.421	East Mongolic. Mongolian
.2	Lahnda (Multani etc.)	.422	West Mongolic. Kalmyk
.3	Nepali	.423	North Mongolic. Buryat
.4	Dardic languages. Kashmiri. Shina. Khowar.	.43	Turco-Tartar languages
	Pashai. Others	.434	Western group. Kirgiz, Kazak etc.
.9	Romany	.435	Turkish (Osmanli)
15	Iranian languages. Persian	.436	Other southern-group languages
.151	Old Bactrian (West Iranian)	.1	Turkmen
.152	Avestan (Zend, East Iranian)	.2	Azerbaijani
.153	Middle Persian. Pahlavi etc.	.3	Anatolian Ottoman
.155	Modern Persian (Farsi)	.437	Central group. Uzbek. Sartic
.156	Ossetic (Ossetian)	.438	Eastern group. Altai. Uigur. Yakut (Sakha).
.157	Kurdish	.44	Kök Turkic. Others
.158	Pashto (Pushtu, Afghan)		Samoyed languages. Ostyak Samoyed (Selkup). Yenisei Samoyed (Yenets). Others
.159	Baluchi. Other Iranian languages. Pamir dialects. Bakhtiyari. Tat. Others	.45	Finno-Ugrian (Uralian) languages
.1	Baluchi	.451	Ugric group. Hungarian. Vogul. Ostyak
.16	Celtic and Basque languages	.1	Hungarian (Magyar)
.161	Gaelic (Goidelic) group	.452	Volga Finnic group. Cheremissian (Mari).
.162	Irish	.453	Mordvinian
.163	Scots Gaelic		Permian Finnic group. Permyak. Zyryan (Komi). Votyak
.164	Manx	.454	West Finnic (Baltic Finnic) group
.165	Cymric (Brythonic) group	.1	Finnish (Suomi)
.166	Welsh	.2	Karelian (and Karelian dialects)
		.5	Estonian

- 809.454.6 Livonian
 .455 Lappish
 .46 **Caucasian languages**
 .461 North Caucasian
 .1 North-western group Adyge. Cherkessian (Circassian). Kabardin. Others
 .2 Eastern (Chechenolesghian) group. Chechen. Ingush. Avar. Others
 .463 South Caucasian (Kartvelian) languages. Mingrelian. Laz. Svanetian
 .1 Georgian
 .47 **Hyperboreal languages. Eskimo-Aleutian languages**
 .471 Hyperboreal languages (Palaeoasiatic, Palaeosiberian). Yukagir. Chukcho-Kamchadalic languages (Chukchi. Koryak. Kamchadal). Ainu. Gilyak
 .475.1 True Eskimo languages
 .2 Aleutian
 .48 **Dravidian languages**
 .481.1 Tamil
 .2 Malayalam (Malabar)
 .4 Canarese group. Kanara (Kannada). Toda. Kota
 .7 Kurukh group. Kurukh (Oraon). Malto
 .482 Kui-Gondi group. Gondi. Kui (Khond)
 .483 Telugu
 .484 Brahui
 .5 **Other Asiatic languages**
 .51 Chinese
 .511 Northern Chinese. Pekinese. Mandarin (Kuan-hua)
 .512 Southern Chinese. Cantonese etc.
 .522 Karen
 .523 Thai (T'ai) languages in general
 .524 Siamese
 .525 Other Thai languages Lao (Laotian). Others
 .527 Vietnamese. Annamese. Tonkinese. Cochinchinese
 .528 Muong
 .53 Yenisei-Ostyak. Kottic
 —809.44; 809.451
 .54 Tibeto-Burmese languages
 .541 Tibetan languages. Tibetan. Balti. Ladakh. Bhotian. Others
 .55 Himalayan languages. Lepcha (Rong). Kiranti. Dhimai
 .555 Assamese. Bodo. Naga
 .56 Japanese
 809.56-086.16 Japanese courtly language, honorifics
 .57 Korean
 .58 Arakan-Burmese languages. Burmese. Kuki-Chinese
 581 Burmese languages. Burmese in the broad sense. Burmese. Arakan
 59 Austroasiatic languages. Malacca. Mon-Khmer. Munda
 593 Protomalaccan languages. Semang. Senoi (Sakai)
 594 Khasi-Nicobar languages. Khasi. Nicobarese. Wa. Palaung. Riang
 595.11 Mon (Talaing, Peguan)
 .12 Khmer (Cambodian)
 .2 Munda (Kolarian) languages Santali. Mundari. Others
 .597 Cham languages. Cham. Radé. Jarai. Sedang. Others
 .6 **African (Negro-African) languages**
 For other languages of the African continent — 803.936; 809.2/.3
 .61/.62 **Palaeoafrian (Bushman-Hottentot, Khoisan) languages**
 .61 Hottentot (Khoi) languages (Nama, Kora and Cape Hottentot)
 .62 Bushman (San) languages
 .63 Congo-Kordofan languages. Bantu. Bantuide. Kordofan. Guinea languages. Others
 .635 Bantu languages
- 809.635.1 Teke group. Duala. Shongo. Bongo. Yombe. Lolo. Kuba. Languages of these groups
 .18 Northern Bantu. Rwanda. Rundi (Barundi). Kikuyu (Akikuyu). Ganda (Baganda). Nyoro (Banyoro). Luhya (Baluha). Others
 .3 Herero-Ndonga group. Herero. Ndonga (Ovambo). Nyamwesi. Nyanyembe
 .4 Swaheli (Swahili) group. Kiswahili
 .5 Konde group. Sena-Nyanza. Yao-Bemba. Pogoro-Kinga
 .7 South-eastern Bantu. Kaffir-Sotho group
 .71 Sotho subgroup. Sotho (Basuto). Kololo. Barotse (Marutse). Mambunda. Others
 .72 Xosa-Zulu subgroup. Xosa (Kaffir). Zulu
 .73 Chuana-Peli subgroup. Chuana (Tswana, Bechuana). Peli
 .636.4 Benue-Congolese (Eastern Bantuide). Tiv. Ibibio. Bamileke. Birom. Others
 .66 **Sudanic languages**
 —809.3
 .662 Wule languages
 .663 Manfu languages. Kru, Egba and Runga groups
 .2 Central Manfu languages. Egba group. Ashanti. Efe. Volta. Yoruba. Egba. Bo (Ibo) Ngonke languages. Songhai. Soninke group. Mande languages (Bambara. Malinke. Mandingo group. Mende group)
 .665 Kanuri languages
 .666 Nilotic languages
 .2 Nuba (Nubian)
 .3 Shilluk group. Shilluk. Dinka. Nuer
 .4 Kwafi group. Kwafi. Masai. Ndorobo (Dorobo). Nandi. Suk. Turkana
 .52 Bagirmi (including Sara and Bongo)
 .667 Bantuide languages
 .11 Senegal group. Wolof (Olof). Fulani. Balante. Biafada. Others
 .12 Temne-Bulom group. Temne. Bulom. Mampwa
 2 North central Bantuide. Gola. Gurma group
 Tem group
 .3 South central Bantuide. Grussi group. Mossi group
 .4 Southern Bantuide. Togo languages
 .5 Eastern. Niger-Congolese languages. Ganda. Zande (Azande). Others
 .668 Hausa (Houssa)
 .7 **North and central Amerindian (American Indian) languages**
 .711 Kenai group
 .712 Na-Dene (Dene, Athabaskan) group
 Chipewyan, Apachean etc.
 .713 Algonkian-Mosan group. Delaware, Cree etc.
 .714 Iroquoian group
 .715 Siouan group
 .716 Pawnee
 .717 Appalachian (Muskogee) group. Cherokee, Choctaw, Creek etc.
 718 Tlingit
 719 Oregon group
 721 Californian group. Periku. Monkee. Kochimi
 722 Yuma group (of lower Colorado)
 723 Ungrouped Pueblo (Plains Indian) languages (of Texas). Zuni, Tegu etc.
 724 Ungrouped Mexican languages. Mixtec. Zapotec. Others
 725 Aztec (Sonoran) group. Nahuatl (Aztec). Shoshone. Comanche. Others
 726 Maya-Quiche group. Maya. Quiche. Huastec
 8 **South Amerindian languages**
 .812 Tupi. Guarani (of Paraguay). Omagua
 .817 Tehuelche (of Patagonia)
 .819 Chibcha
 .821 Kechua (Quechua)
 .9 Austronesian and Australasian languages
 92 Malayo-Polynesian languages. Indonesian languages
 .921 Northern (Tagala) group
 .1 Languages of the Philippines

809.921.11	Tagalog	82-293.2	Comic opera. Operettas
.12	Bisaya (Visaya)	-3	Fiction. Prose narrative
.14	Ilokano (Ilocan)	-31	Novels. Full-length stories
.2	Formosan	-311.3	Novels dependent on plot. Adventure novels etc.
.9	Languages of Madagascar. Malgasi (Malagasy)	-312.4	Crime novels. Detective novels. Novels of mystery, suspense. Thrillers
.922	Southern and Eastern group	-32	Short stories. Novellas
.1	Malay	-34	Tales. Legends. Fairytales
.2	Javanese	-36	—398.2
.3	Balinese	-39	Brief tales. Anecdotes
.4	Maduran	-4	Ancient, e.g. mediaeval, romances
.5	Sundanese	-5	Essays
.6	Non-Malayan languages of Sumatra	-6	Oratory. Speeches. Sermons. Addresses. Lectures. Others
.62	Achin (Atyeh)	-7	Letters. Art of letter-writing.
.64	Batak	-82	Correspondence. Genuine letters. Other works in epistolary form
.7	Borneo languages	-83	Prose satire. Humour, epigram, parody etc.
.72	Dayak	-84	Polygraphies. Selections, extracts.
.8	Celebes languages. Sulawesi. Macassar. Buginese. Others	-845	Anthologies. Curiosa
.9	Other Indonesian languages. East Indonesian group	-9	—08
.952	Timor languages	-91	Philosophical or discursive dialogues.
.955	Ambon (Amboina) languages	-92	Conversations on various subjects
.923	Oceanian languages	-94	Maxims. Gnomic utterances. Sententiae.
.1	Melanesian and Micronesian. Fijian	-96	Aphorisms. Pithy sayings. Adages. Proverbs.
.2	Polynesian. Maori. Samoan. Hawaiian	-97	Thoughts. Table-talk. Obiter dicta
.211	Maori	-98	Wit. Repartees. Word plays, puns
.22	Western Polynesian	-991	Various other genres
.951	Australian aboriginal languages	-992	Popular literature. Popular editions.
.1	South Australian	-993	Simplified versions etc.
.2	North Australian	-994	—087.6; 398.5
.957	Papuan languages	-995	Periodical literature. Writings in serials, journals, reviews. Journalism. Occasional literature. Polemic, political writings.
.958	Tasmanian	82.0	Pamphleteering
82	LITERATURE IN GENERAL	.01	—05; 07
	82(091) Literary history in general	.08	History as literary genre. Historical writing.
Special auxiliary subdivisions	<i>Applicable in 82/899</i>	.081	Historigraphy. Chronicles. Annals. Memoirs.
82-1/-9	Literary forms, genres	.083	Journals. Diaries. Biography. Autobiography
-1	Poetry. Poems. Verse	.085	—82(091); 929
-12	Dramatic verse. Dramatic poems. Verse dramas	.1	Works of science and philosophy as literature
-13	—82-2	.3	Religious literature in general
-14	Epic poems	.4	—82-251; 82-291.1
-16	Lyric poems (e.g. odes, hymns, elegies, ballads)	.09	Mottoes, slogans, devices. Personal maxims.
-17	Descriptive poems	.091	Inscriptions. Rebuses. Puzzles. Anagrams
-191	Satirical and humorous poems		Dissertations
-193	Allegorical poems. Verse fables, parables etc.		Descriptions of travels
-193	Shorter poetic forms. Riddles. Epigrams		Licentious, salacious, titillating literature.
-194	Sonnets. Rondels. Epitaphs. Others		Erotica. Pornography
-2	—398.6		Offbeat, eccentric literature. Inspirational, visionary, insane literature
-21	Rhyming almanacs		Literary fabrications, hoaxes. Pastiches.
-22	Drama. Plays		Imaginary, supposed works
-23	—792, e.g. 792.08; 82-12		—098.3
-24	Tragedies		Theory, study and technique of literature
-25	Comedies. Farces. Revues, sketches. Others		Aesthetics of literature. Philosophy of literature. Literary taste
-251	Melodramas. Thrillers. Mysteries. Popular theatre		Literary activity and technique. Writing.
-252	Historical plays		Editing. Speaking
-254	Various kinds of play		Creative writing. Art of writing
-27	Religious drama		Editorship. Editing. Adapting and arranging copy for publication.
-27	—82-292.1; 82-97		—655.5
-28	Fairytale, fantasy plays		Rhetoric. Oratory. Eloquence. Art of public speaking
-291	Plays for presentation on festive occasions.		Principles of elocution. Voice. Diction
.1	Occasional plays		—534.78; 612.78
.2	Monologues. Recitations. Plays for a single performer (one-handers)		Gesture and gesticulation. Facial expression.
-292	Tendentious, didactic, propagandist plays		Posture. Stance. Bearing. Demeanour
-293	Mediaeval and Renaissance drama		Eloquence. Persuasiveness. Audience psychology
.1	Liturgical drama. Religious, biblical plays.		Literary criticism. Literary studies
.2	Mystery, nativity, miracle, passion plays		Comparative literary studies. Comparative literature
	—82-251; 82-97		
	Secular drama. Moralities. Moral plays with deterrent examples. Satirical farces, play of fools		
	—82-251; 82-97		
	Theatre of the people. Folk dramas		
	—398.5		
	Musical drama. Libretti		
	—78.089.1; 782		
		Principal divisions	
		82...A/Z	Works of specific authors

82...A/Z (cont'd)	<i>The number for literature in the relevant language is selected from 820/899 (see below), and specific authors denoted by name, abbreviated if desired, e.g.</i> 820SHAK Works of Shakespeare 840-2MOL Dramatic works of Molière See Table I(h)
82...A/Z1/7	Kinds of edition
Special auxiliary subdivisions	
[82...A/Z1/7].01	In original language
.02	In bilingual or annotated edition
.03	Translated text. Transliterated, romanized text (etc.)
.05	Abridgements. Paraphrases
.07	Interpretations. Recensions
.08	Language and style (of author or work). Vocabulary. Grammar. Stylistic features
.091	Sources of the work. Author's source material (works imitated, adapted etc.)
.092	Continuations, sequels (with different title or by other writers)
.093	Vindications. Apologias
Principal divisions	
82...A/Z1	Complete works or sets
2	Incomplete collections
3	Selections. Anthologies
4	Contributions to others' works. Joint works

82...A/Z411	Introductions. Forewords. Prefaces.
412	Presentation inscriptions. Dedications
5	Joint, composite, collective works (edited by the writer or with contributions by the writer)
6	Anonymous works attributed to an author.
7	Pseudonymous, cryptonymous works
	Works in the author's name but attributed to others. Spurious works
	Individual works
	Add title, abbreviated if desired, e.g.
	820SHAK7H VI 1 Shakespeare's Henry VI, Part 1
	820SHAK7H VI 1.03=30 Henry VI, Part 1, translated into German
820/899	LITERATURES OF INDIVIDUAL LANGUAGES
	820/899 ≈ 802.0/809.9, e.g.
	820 English literature. Literature in English
	820(73) Literature of the USA in English
	830 German literature. Literature in German
	830(436) Literature of Austria in German
	840 French literature. Literature in French
	840(494) Literature of Switzerland in French
	882 Russian literature. Literature in Russian

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9 GEOGRAPHY. BIOGRAPHY. HISTORY

	9-05 Persons and personal characteristics in geography, biography and history from Table I(k)	903.22 .23 .24 .25 .26 .27 .28 .3 .4 .5 .6 .7 .8		Weapons Vessels. Jars. Urns. Bowls Clothing Personal ornaments Objects of worship. Religious, cult objects Artistic remains (e.g. cave paintings) —7.031.1 Food remains. Kitchen middens Prehistoric dwellings Prehistoric settlements Burial remains. Prehistoric graves, barrows (tumuli) etc. Prehistoric stone monuments Places of worship. Temples, altars etc. Intentional deposits (other than in graves). Hoards. Votive deposits. Bog finds etc.
902	ARCHAEOLOGY. METHODS AND TECHNIQUES FOR THE STUDY OF PAST CIVILIZATIONS AND CULTURES BASED ON DISCOVERY AND INTERPRETATION OF MATERIAL REMAINS OR RELICS			
	Special auxiliary subdivisions			
902.01	Typology. Comparative study of form. Stratigraphy. Comparative study of location. Associations. Closed finds. Seriation			
.03	Archaeology according to conditions, location etc. of site and excavations 902.03 ≈ 69.03			
	Principal divisions			
902.2	Archaeological fieldwork and sites generally —351.853; 502, e.g. 502.8	904		CULTURAL REMAINS OF HISTORICAL TIMES. ANTIQUITIES, ARTEFACTS OF ANCIENT, MEDIAEVAL AND MODERN TIMES —502.8; 7.031 904.0/9 Subject, field of interest :6 Industrial antiquities :621 Antique machinery and tools :624.21 Historic bridges and their remains :72 Historic architecture and remains :725.826 Remains of stadiums, amphitheatres etc. 904(1/9) Site, source, etc. of antiquities (place, region, country etc.) Details from Table I(e) 904“...” Dates of antiquities (time, period, specific date etc.) Details from Table I(g) 904-03 Materials of antiquities Details from Table I(k)-03
.3	Field archaeology methods and techniques. Excavation, preservation techniques etc.			
.4	Recording techniques in archaeology			
.6	Dating techniques in archaeology			
.62	Dating by stratigraphy			
.63	Dating by sequence. Dating by seriation			
.64	Dating by typology			
.65	Physicochemical dating techniques. Radiocarbon dating. Palaeomagnetic dating. Dating by chemical analysis. Dating by patination, obsidian hydration, thermoluminescence. Others			
.66	Geochronological dating techniques (e.g. glacial varve sequence, sedimentation rate)			
.67	Palaeontological dating techniques (palaeobotanic and palaeozoological). Palynology (pollen analysis). Dendrochronology (tree-ring dating). Others —630*55			
903	PREHISTORY PREHISTORIC REMAINS, ARTEFACTS, ANTIQUITIES. INTERPRETATION AND SYNTHESIS OF THE MATERIAL RELICS OF ANCIENT HUMANS, THEIR CULTURE FORMS AND CIVILIZATIONS —502.8; 7.031 903“63” Archaeological, prehistoric, protohistoric periods and ages Details from Table I(g) 903-03 Materials of remains and artefacts Details from Table I(k)-03	908		AREA STUDIES. STUDY OF A LOCALITY Class here comprehensive studies of the history, geography, customs, culture, economy etc. of an area 908 ≈ (3/9), Table I(e), e.g. 908.411 Comprehensive studies of Scotland 908.414.45 Studies of Midlothian 908.436K Studies of Kärnten (Carinthia), e.g. Kärntner Heimatbuch
	Special auxiliary subdivisions	91		GEOGRAPHY. EXPLORATION OF THE EARTH AND OF INDIVIDUAL COUNTRIES. TRAVEL. REGIONAL GEOGRAPHY —308; 528; 55 Information about a specific subject in relation to place is classed with the subject, using the place auxiliaries, Table I(e), e.g. 331.2(450) Salaries and wages in Italy
903-4	Shape and form of remains 903-4 ≈ 62-4			
903.01	Stone and bone objects according to shaping method. Flaked, chipped, polished objects etc.			
.02	Pottery according to method of manufacture. Moulded, ring-formed, wheel-made pottery			
.03	Glass according to method of manufacture			
.04	Textiles according to method of manufacture Plated, knitted, woven textiles	910		GENERAL QUESTIONS. GEOGRAPHY AS A SCIENCE. EXPLORATION. TRAVEL Science of geography. Methodology (theory, systems, methods) Kinds and techniques of geographical exploration. Field work. Exploration and travels Evaluation or interpretation of literature, maps and other documents from a geographical point of view 910.26:528.77 Geographical interpretation of aerial photograms Exploration of particular geographical features 910.3:551.324 Exploration of glaciers Voyages of discovery. Journeys. Travels. Expeditions
.05	Metal artefacts according to method of manufacture. Cast and wrought metal	.1		
.07	Artefacts according to quality of execution	.2		
.08	Ornamentation. Decoration. Painted, carved, incised etc.			
903'1	Prehistoric culture forms	.26		
'12	Hunting and fishing cultures			
'13	Primitive farming cultures			
'14	Pastoral cultures			
'15	Nomadic cultures			
'16	Advanced farming cultures	.3		
'18	Town, city cultures (civilizations)			
	Principal divisions			
903.2	Artefacts (Implements. Clothing. Ornaments. Artistic remains. Food remains)	.4		
.21	Tools. Implements			

910.4 (cont'd)	910.4:796.5 Journeys in the form of walking, mountaineering, camping	911.375.6	Internal division and uses of urban area. Sectors, quarters, districts of town
	910.4(091) Historical accounts of voyages etc.	.63	Town divisions in relation to its centre
	(100) International and world travel (430:450) Travels between Germany and Italy	.631 .632 .635	Town centre. City part (inner city) Suburbs. Suburban areas Surroundings, environs of town. Peripheral area
		.64	Districts, precincts, quarters of town
911	GENERAL GEOGRAPHY. SCIENCE OF GEOGRAPHICAL FACTORS (SYSTEMATIC GEOGRAPHY). THEORETICAL GEOGRAPHY		→711.5 911.375.64:725.12 Government, ministry districts
.2	Physical geography		.725.31 Railway station districts .725.8 Entertainment and amusement districts .728 Residential districts
	911.2:556 Hydrogeography		→054 According to predominant ethnic characteristics, nationality, citizenship etc.
	:581.9 Plant geography (phytogeography) as branch of physical geography		→058 According to predominant social class, civil status of inhabitants
	→581.527		.34 Poor quarters. Districts of low-income groups
.3	Human geography (cultural geography). Geography of cultural factors		Typological geography (study of geographical landscape types, and divisions based on them)
	911.3:312 Demographic geography		Natural landscape
	:33 Economic geography		Cultural landscape
.37	Settlements. Settlement geography		Individual spatial divisions and regional units
	→658.21; 71		Comparative geography (including comparative regional research)
.372	Site, types, function, forms of settlement. Deserted settlements		Normative geography (norms and laws of form, ecology, development etc.)
.2	Settlements according to spatial distribution and situation		Applied, practical geography
	910.372.2(23.07-04) Altitude limits of settlements	.5	911.9:502.7 Application of geography to wildlife conservation and protection
.31	Single settlements		
.32	Grouped settlements	.52	
.4	Settlements according to their function	.53	
	→711.45; 911.375.4	.6	
	911.372.4:271 Monastic settlements	.7	
	→711.56		
	:35 Administration centres as settlements	8	
	→711.451; 711.55	9	
	:796.9 Winter sports resorts as settlements		
	→711.455		
.5	Pattern, plan (perspective), elevation of settlements	912	NON-LITERARY, NON-TEXTUAL REPRESENTATIONS OF A REGION. PICTURES. GRAPHS. DIAGRAMS. PROFILES. CARTOGRAMS. MAPS. ATLASES. GLOBES (AS EXPRESSIONS OF GEOGRAPHICAL KNOWLEDGE)
.7	Utilities and services of settlements		→528.7; 528.9; 778.35
.9	Infrastructure of settlements		912(6) "17" Non-textual representations of Africa in the 18th century
	Deserted settlements. Desertion, abandonment of settlements		912.4 ≈ (084); 912.6 ≈ (086), Table I(c), e.g.
.373	Rural settlements (their study and geography)		912.43 Cartographic images, maps, etc. (as expressions of geographical knowledge) from (084.3)
.374	Special types of settlement		
.1	Small suburban settlements		
.2	Country settlements functioning as centres		
.3	Non-integrated shopping centres (outside built-up areas)		
.4	Industrial and manufacturing centres (outside built-up areas)		
.5	Traffic settlements (e.g. railhead settlements)		
.6	Residential settlements of urban type (in open country)	913	REGIONAL GEOGRAPHY IN GENERAL. GEOGRAPHY OF THE ANCIENT WORLD
.7	School and church settlements (in open country)		913(100) Regional geography of the world
.8	Fortified settlements and nobles' estates (in open country)		(21) Of land areas as a whole
.375	Urban settlements (their study and geography). Towns. Cities	.1	(26) Of oceans and seas as a whole
	Types of town or city	.15	Geography of the ancient world
	→711.417; 711.42	.2/.9	Geography of ancient China and Japan
	911.375.3(188) Towns and cities according to size		Geography of other individual countries of the ancient world
	Details from Table I(e)		913.2/.9 ≈ (32/39), Table I(e), e.g.
	911.375.3"..." Towns and cities according to date of foundation	914/919	913.8 Geography of ancient Greece
	Details from Table I(g)		
.4	Towns or cities according to function		DESCRIPTIONS OF INDIVIDUAL REGIONS AND COUNTRIES OF THE MODERN WORLD (WHETHER OR NOT FROM THE VIEWPOINT OF SPECIALIST, ACADEMIC GEOGRAPHY)
	→711.45; 711.55; 911.372.4		914/919 ≈ (4/9), Table I(e), e.g.
	911.375.4:378.4 University or college towns		914 Geography of Europe
	→711.47; 711.57		.1 Of the British Isles
.5	Townscapes. Plan, layout, elevation, skyline (of town or city)		.10 Of Great Britain and the United Kingdom

914 (cont'd)	914.30 Of Germany	929.624.2	Natural charges (e.g. human figures, animals, plants)
	.36 Of Austria		Man-made objects, artefacts as charges (e.g. castles, weapons)
	.38 Of Poland	.3	Fantastic forms as charges (e.g. dragons)
	.4 Of France	.5	House marks, letters
	.60 Of Spain	.8	Accessories. Headgear (helms, crowns, coronets). Marks of rank. Badges, emblems etc.
	.7 Of the USSR generally, and of the European USSR	.628	Armorial according to names emblazoned or represented
	.92 Of the Netherlands		Nobility. Titles. Peerage
	.93 Of Belgium		
	.94 Of Switzerland	.64	
	915 Geography of Asia	.7	
	916 Geography of Africa		Special auxiliary subdivisions
	917 Geography of North and Central America	929.7.031	Nature, characteristics, establishment and structure of the nobility
	.3 Of the USA		Proof, verification of nobility
	918 Geography of South America	.034	Rights, prerogatives, privileges of the nobility
	919 Geography of Oceania, the polar regions, Australasia etc.	.035	Duties, obligations of the nobility
		.036	
929	BIOGRAPHICAL AND RELATED STUDIES	Principal divisions	
	—Table I(d)(092); 012; 82-94	929.71	Orders of chivalry. Decorations
	929.0/9 Collective biographies according to speciality	.73	—671.128
	:235.3 Saints' lives. Hagiography (or — 235.3:929)	.731	Degrees of nobility. Rank. Precedence
	:75 Biographies of painters	.732	Royalty. Monarchs. Kings. Princes.
	929(3/9) Collective biographies according to country		Archdukes. Grand dukes
	929"..." Collective biographies according to period	.733	Hereditary nobility. Dukes. Marquesses.
	929A/Z Biographies of individuals	.735	Earls. Viscounts. Barons. Baronets. Counts.
	929Grotius Biographies of Hugo Grotius (Huig de Groot)	.737	Margraves
	929Charles(44)5 Biographies of King Charles V of France	.9	Personal (non-hereditary) nobility. Life peers.
.5	Genealogy	.921	Knights
.51	Theoretical genealogy	.922	Landed gentry. Squires
	—312; 575.1		Civic nobility. Respected, revered families (not strictly nobility)
.52	Special genealogy. Family histories	.923	Flags. Standards. Banners
	<i>Details by common auxiliaries, here and at subdivisions, e.g.</i>	.925	National flags. National colours
	929.52SAC History of the Sackville family	93/99	Local and regional flags. Town, municipal flags
	929.522(410.3) Ascendancy tables of Welsh families	930	Official flags and standards of individuals, heads of state etc.
	929.522"17" Ascendancy tables for the 18th century		Merchant navy flags
.09	Family names and their origins		HISTORY
	—347.189; 801.313		—Table I(d)(091); (093)
.521	Tables of descendants. Descendancy tables.		SCIENCE OF HISTORY. ANCILLARY HISTORICAL SCIENCES
.522	Tables of lineage. Family trees		<i>Class here works about historiography and the state of historical studies in particular places and times, e.g.</i>
.523	Pedigree. Ancestral lineage	.1	930(485)"18" State of historical studies in Sweden in the 19th century
.53	Proof of blood relationship. Consanguinity tables	.2	History as a science. Theory and philosophy of history. Structure and form of history
	Sources of genealogy. Registers of births, deaths and marriages. Baptismal registers. Burial registers. Records of legal status. Civil registers	.22	History: methods of study based on written sources, records, inscriptions
	—259; 347.183; 351.755		930.2:003 Semiotics as ancillary historical science
.532	Ecclesiastical registers. Church registers	.23	Diplomatic (critical study of the internal characteristics, style and form of documents)
	929.532:262.14 Lists of clergy (as genealogical source)	.24	—003.07
535	Registers of secular, civil authorities	.25	Historical criticism
	929.535:351.755 Civil registry (of police etc.) as genealogical source	.251	Historical chronology
.55	Funerary inscriptions. Epitaphs		—529
.6	Heraldry. Blazonry. Armorial bearings. Coats of arms	.253	Archivistics. Archives (including public and other records)
	—736.3		—651.5
.62	Theory and principles		Archival techniques and organization.
.621	The shield or scutcheon and its various shapes	.255	Establishment and administration of repositories
.622	Heraldic tincture. Armorial colours	.27	Archive repositories and their contents.
.623	The divisions of the field		History, scope, arrangement and description of contents
.624	Devices. Charges. Crests. Bearings	.85	930.253:352 Local government archives.
.1	Ordinaries and common charges (e.g. chevrons, lozenges)	.9	Municipal archives
			Archive lists and catalogues
			Epigraphy. Palaeography
			—003.07
			History of civilization. Cultural history
			—008; 130.2; 17.023.36
			General history. World history (chronological summation of facts)

931	ANCIENT HISTORY IN GENERAL. HISTORY OF ANCIENT PEOPLES	941.1.04	From James I to James V, 1424-1542
	931.5/939.97 = (315/399.7), Table I(e), e.g.	.05	Reformation, 1542-1603
	931.5 History of ancient China (to ca. 600 AD)	.06	Personal union with England, 1603-1707
	from (315)	.07	Act of Union. House of Hanover, 1707-1837
	932 History of ancient Egypt (to 640 AD) from (32)	.08	Nineteenth and twentieth centuries, from 1837
	933 Jewish history. History of the Jewish people (to modern times)	941.5	History of Ireland
	934 History of ancient India (to 647 AD) (and history of ancient Indo-China)	.01	Early history, to 1086
	935 History of ancient Medo-Persia (Chadaea, Mesopotamia etc.). History of the Medes, Persians, Assyrians, Babylonians	.02	Separate kingdoms, 1086-1171
	936 History of the north, west and east European peoples (Teutons, Celts, Slavs etc.) to 476 AD	.03	House of Plantagenet, 1171-1399
	.3 History of the Germanic tribes (Saxons. Angles. Franks. Goths Others)	.04	Houses of Lancaster and York, 1399-1485
	.4 History of the Celts	.05	House of Tudor, 1485-1603
	.6 History of the Britons	.06	House of Stuart, up to the Treaty of Limerick, 1603-1691
	.7 History of the Slavs	.07	From the Treaty of Limerick to the Act of Union, including the House of Hanover, 1691-1800
	937 History of ancient Rome (to 476 AD)	.08	The nineteenth century, 1801-1900
	938 History of ancient Greece (to 323 AD)	.09	The twentieth century, 1901-
	939.7 History of ancient Africa (Mauretania. Numidia. Carthage. Libya. Aethiopia)	.091	Up to the Government of Ireland Act, 1920
	.8 History of south-east Europe (Dacia. Vindelicia. Rhaetia. Noricum. Pannonia. Illyria. Dalmatia)	.093	From 1920. Northern Ireland and the Irish Free State (later Republic of Ireland)
		941.6	Alternatively — 941.6/7 (to file information about the two areas separately)
		941.7	History of Northern Ireland
		942	History of the Irish Free State and Republic of Ireland
			History of England and Great Britain
			<i>The history of the United Kingdom as a whole may be classed here. For the history of the countries of the UK individually, see 941.1, 941.5 and 942.9 (as well as 942). See also 941 and the note there.</i>
94	MEDIAEVAL AND MODERN HISTORY (IN GENERAL)	.01	Prehistory, Roman and Anglo-Saxon period
940	History of Europe. History of the West	.02	Norman kings, 1066-1154
.1	Middle Ages (in the wider sense) ca. 375-1492	.03	House of Plantagenet, 1154-1399
.2	Modern period, ca. 1492-1914	.04	Houses of Lancaster and York, 1399-1485.
.3	First World War, 1914-1919	.05	Wars of the Roses, 1455-1485
.5	History of Europe from 1919.	.06	House of Tudor, 1485-1603. Tudor and Elizabethan periods
	Twentieth-century European history in general	.07	House of Stuart, 1603-1714. Interregnum, 1649-1660. The Commonwealth. Cromwell. The Restoration
.53	Second World War, 1939-1945	.08	House of Hanover, 1714-1837. Georgian and Regency periods
.55	History of Europe from 1945. Post-war Europe	.081	Victoria and House of Windsor, 1837-
941/99	941/99 is divided primarily according to place (direct divisions), and secondarily according to historical periods (.0 auxiliaries). The direct divisions are derived from Table I(e) Common auxiliaries of place (41/99), e.g. 941.1 derives from (411). There are a few exceptions, notably 942. (420) would suggest 942.0 for history of England, but it is convenient to omit the zero.	.082	Victoria, 1837-1901
	In the following selection, detailed subdivisions are given mainly for English-speaking countries. For countries not listed here, the main numbers may be derived from the place auxiliaries, by reference to Table I(e). For historical periods not listed here, the user is referred to BS 1000[9].	.083	Edward VII, 1901-1910
		.084	George V, 1910-1936
		.085	Edward VIII, 1936
		.086	George VI, 1936-1952
		942.9	Elizabeth II, 1952-
		943.0	History of Wales
		944	History of Germany
		950	History of France
		954	History of Asia
		.02	History of the Indian subcontinent
		.03	Asian dynasties and European penetration, 647-1774. Muslim conquests. Mogul period
		.04	British India, 1765-1947. East India Company. Sepoy Mutiny. Control by British crown
941	History of the British Isles	956.94	Independence and partition, 1947-. States of India, Pakistan, Bangladesh
	In general, history of the British Isles as a whole may be classed with history of England at 942. History of the current administrative divisions of the United Kingdom may be classed here, e.g. 941.011.1 History of Greater London from (410.111)	.01	History of Palestine and Israel
	If in doubt, prefer 942	.02	Early history, to 70 AD
941.1	History of Scotland	.03	Pre-Islamic period, 70-638
.01	Gaelic period, to 1057	.04	Mediaeval and modern Palestine, 638-1917
.02	Efforts at control by England, 1057-1314.	.05	Palestine under British control and mandate, 1917-1948
.03	Battle of Bannockburn, 1314	959.1	Independence, 1948-. State of Israel
	Independent Kingdom, 1314-1424	.02	History of Burma
		.03	Early history, to 1826
		.04	Period of British conquest, 1826-1885
		.05	British rule, 1885-1948
		959.5	Independence, 1948-
			History of Malaysia, Malaya, Straits Settlements and Singapore

960	History of Africa	968.9.04	Post-federation, 1964-. States of Zimbabwe (formerly Southern Rhodesia), Zambia (formerly Northern Rhodesia), Malawi (formerly Nyasaland)
962	History of Egypt and the Sudan	970	History of North and Central America
962.0	History of Egypt	971	History of Canada
.02	Period of Arab rule, 640-1517	.01	Early history and French rule, to 1760
.03	Period of Ottoman rule, 1517-1882	.02	British rule, 1760-1791
.04	British occupation and protectorate 1882-1922	.03	Constitutional or representative government, 1791-1841
.05	Independence, 1922-	.04	The Union, 1841-1867
962.4	Sudan	.05	The Federation, 1867-1931
.02	From the Arab invasion, 7th century, to 1820	.06	Self-governing Canada, 1931-. Dominion of Canada
.03	Period of Egyptian and British rule, 1820-1956. Anglo-Egyptian Sudan	972	History of Mexico
.04	Independence, 1956-	972.8	History of Central America
966.4	History of Sierra Leone	972.82	History of British Honduras (Belize)
.01	Early history, to 1787	.02	Discovery, exploration and conquest, 1502-1535
.02	British colony, 1787-1896	.03	Colonial period, 1535-1821
.03	Colony and protectorate, 1896-1961	.04	Nineteenth century, 1821-1900
.04	Independence, 1961-	.05	Twentieth century, 1901-
966.51	History of the Gambia	972.9	History of the Caribbean territories. West Indies
.01	Early history, to 1807	.02	Discovery, exploration, conquest, 1492-1608
.02	British colony, 1807-1965	.03	Seventeenth and eighteenth centuries, 1608-1800
.03	Independence, 1965-	.04	Nineteenth century, 1801-1902
966.7	History of Ghana	.05	Twentieth century, 1902-
.01	Early history, to 1874	973	History of the United States of America
.03	British colony, 1874-1957. Gold Coast	.01	From discovery to 1607. Pre-Columbian period. Discovery by Norsemen, Columbus etc. Explorations
.05	Independence, 1957	.02	Colonial period, 1607-1775
966.81	History of Togo, Togoland	.03	War of Independence. Founding of the Union. 1775-1789
.01	Early history, to 1894	.04	Constitutional period, 1789-1809.
.02	German period, 1894-1914	.05	Administrations of Washington, Adams, Jefferson
.03	Anglo-French period, 1914-1960	.06	Early nineteenth century, 1809-1845.
.04	Independence, 1960-	.07	Administrations of Madison, Monroe, Adams, Jackson, van Buren, Harrison, Tyler
966.9	History of Nigeria	.08	Mid nineteenth century, 1845-1861.
.01	Early history, to 1886	.09	Administrations of Polk, Taylor, Fillmore, Pierce, Buchanan
.03	British colony and protectorate, 1886-1960	.091	Administration of Abraham Lincoln, 1861-1865. American Civil War
.05	Independence, 1960-	.1/8	Later nineteenth century, 1865-1901.
967.11	History of Cameroon	.092	Administrations of Andrew Johnson, Grant, Hayes, Garfield, Cleveland, Harrison, McKinley
.01	Early history, to 1884	.1/6	History from 1901
.02	German period, 1884-1916	974/979	Early twentieth century, 1901-1953
.03	Anglo-French period, 1916-1959	980	Administrations of Theodore Roosevelt, Taft, Wilson, Harding, Coolidge, Hoover, Franklin D Roosevelt, Truman
.04	Independence, 1960-	990	Later twentieth century, 1953-
967.6	History of the east African states (and British East Africa)		Administrations of Eisenhower, Kennedy, L B Johnson, Nixon, Ford, Carter
967.61	History of Uganda		History of individual states of the USA
.01	Early history, to 1894		974/979 = (74/79), Table I(e)
.03	British period, 1894-1962		History of South America
.04	Independence, 1962		History of Oceania, the polar regions, Australasia etc.
967.62	History of Kenya	993.1	History of New Zealand
.01	Early history, to 1895	.01	Maori period. Early history, to 1840
.03	British period, 1895-1963	.02	Colonial period, 1840-1907
.04	Independence, 1963-	.03	Dominion status, 1907-
967.8	History of Tanzania (Tanganyika and Zanzibar)	994	History of Australia
.04	United republic, 1964-	.01	Early history, to 1788
.81	History of Zanzibar	.02	Settlement and early growth, 1788-1851
.01	Early history, to 1700	.03	Colonial administration, 1851-1901
.02	Arab rule, 1700-1890	.04	Commonwealth (to the end of the Second World War), 1901-1945
.03	British protectorate, 1890-1963	.05	Later twentieth century, 1945-
.04	Independence, 1963-		
.82	History of Tanganyika		
.01	Early history, to 1884		
.02	German period, 1884-1916		
.03	British period, 1916-1961		
.04	Independence, 1961-		
968	History of southern Africa		
968.0	History of South Africa		
.02	Early history, to 1488		
.03	Period of exploration and settlement, 1488-1814		
.04	Nineteenth and early twentieth centuries, 1814-1909		
.05	Union of South Africa, 1909-1961		
.06	Republic of South Africa, 1961-		
968.9	History of Rhodesia and Nyasaland		
.01	Early history, to 1888		
.02	British control, 1888-1953		
.03	Federation of Rhodesia and Nyasaland (Central African Federation), 1953-1963		

BS 1000M : Part 1 : 1985

This British Standard, having been prepared under the direction of the Documentation Standards Committee, was published under the authority of the Board of BSI and comes into effect on 31 July 1985

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ISBN 0 580 14568 9

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United Kingdom Atomic Energy Authority
University College London, School of Library Archive and Information Studies

Amendments issued since publication

Amd. No.	Date of issue	Text affected

British Standards Institution · 2 Park Street London W1A 2BS · Telephone 01-629 9000 · Telex 266933